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NAVAL WEATHER SERVICE DETACHMENT ASHEVILLE N C  
SUMMARY OF SYNOPTIC METEOROLOGICAL OBSERVATIONS (SSMO). AUSTRAL--ETC(U)  
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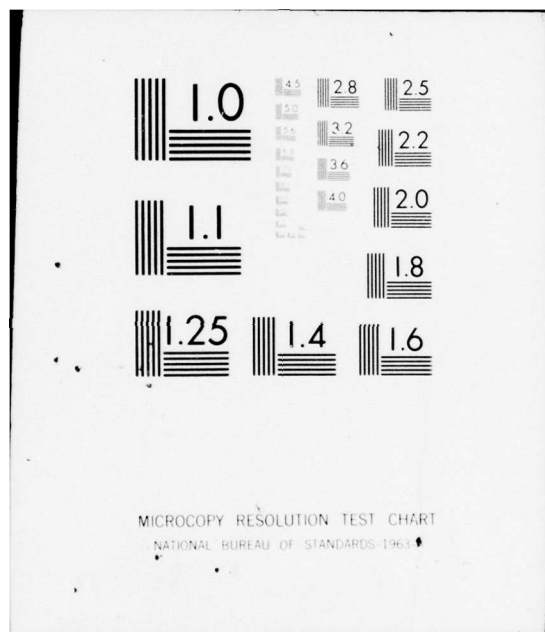
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1 of 6  
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**SUMMARY OF  
SYNOPTIC METEOROLOGICAL OBSERVATIONS  
(SSMO)**

**AUSTRALIAN COASTAL MARINE AREAS**

**VOLUME 2**

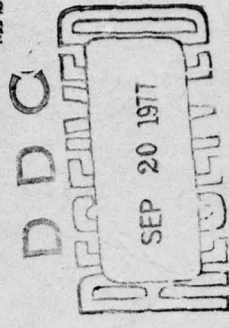
- AREA 9 - MELBOURNE SE
- AREA 10 - TASMANIA EAST
- AREA 11 - TASMANIA WEST
- AREA 12 - CAPE NELSON
- AREA 13 - SPENCER GULF
- AREA 14 - AUSTRALIAN BIGHT SE
- AREA 15 - AUSTRALIAN BIGHT SW



PREPARED BY  
THE NAVAL WEATHER SERVICE DETACHMENT, ASHEVILLE, N.C.  
FOR  
THE DIRECTOR, NAVAL OCEANOGRAPHY AND METEOROLOGY

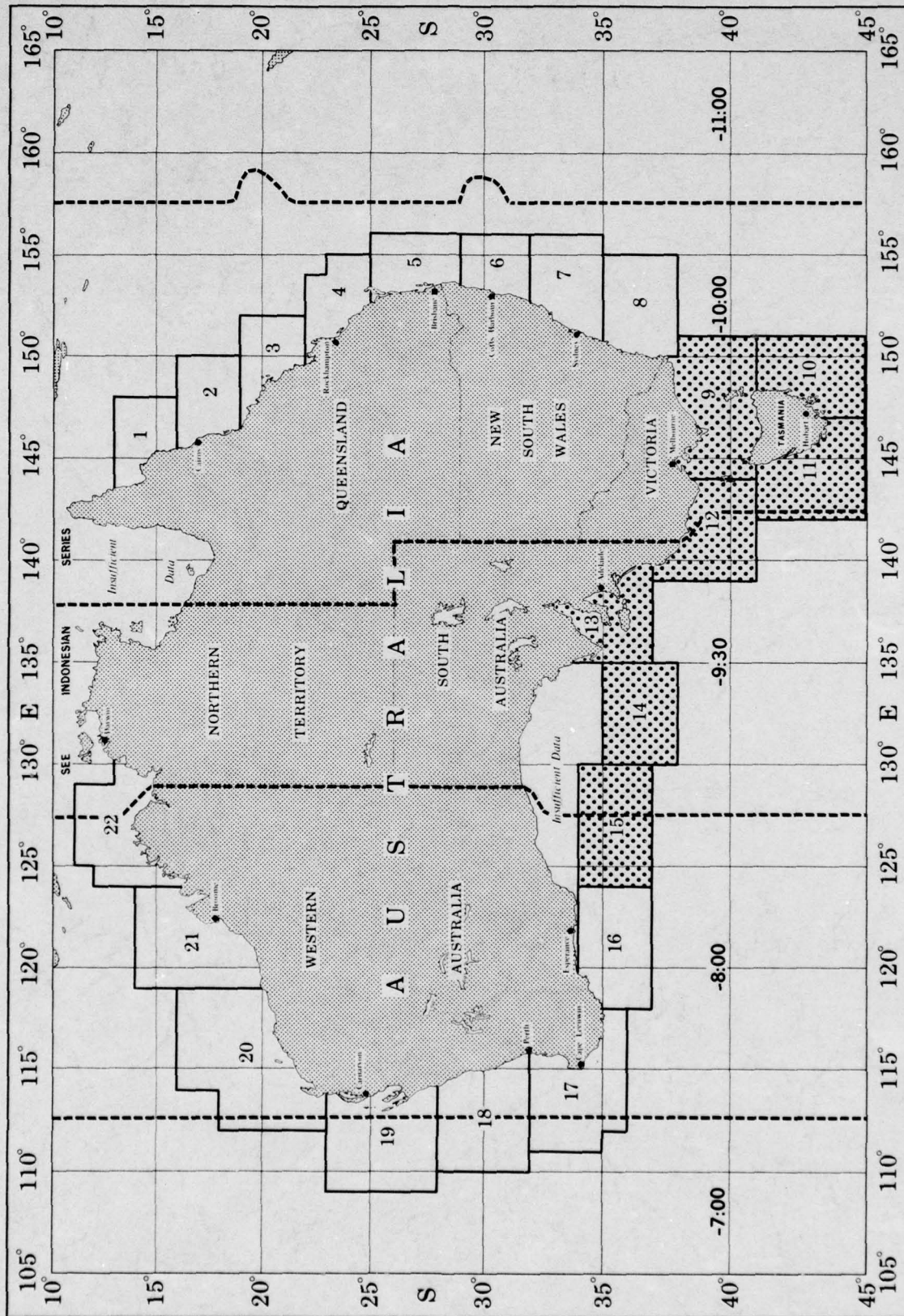
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# AUSTRALIAN COASTAL MARINE SSMO AREAS AND STANDARD TIME ZONES

Shaded areas are included in this volume

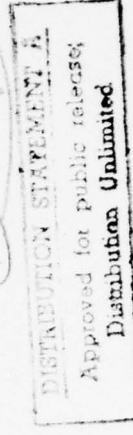
A list of the area names and their central locations appears on the inside back cover

12  
SUMMARY OF  
SYNOPTIC METEOROLOGICAL OBSERVATIONS  
(SSMO)

AUSTRALIAN COASTAL MARINE AREAS.

VOLUME 2,

AREA 9 - MELBOURNE SE.  
AREA 10 - TASMANIA EAST.  
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20. ABSTRACT (Continue on reverse side if necessary and identify by block number)  This report presents marine climatological data for specific coastal areas in 21 different tables including weather occurrence, wind direction and speed, cloud amount, ceiling height, visibility, precipitation, dry bulb, relative humidity, air-sea temperature difference, sea height and period, sea surface temperature and sea level pressure.		

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## SUMMARY OF SYNOPTIC METEOROLOGICAL OBSERVATIONS (MONTHLY AND ANNUAL)

The SSMO series of coastal marine summaries is managed and produced by the Naval Weather Service Detachment, Asheville, N. C. for the Director, Naval Oceanography and Meteorology. A list of published SSMO's is contained in the catalogue part of the "Guide to Standard Weather Summaries and Climatic Services", NAVAIR 50-1C-534.

The data summarized in the following tables were obtained from Tape Data Family 11 (TDF-11) Marine Surface Observations. The development and maintenance of TDF-11 was primarily funded by the Naval Weather Service Command. The source of these marine surface observations was punched cards of weather observations taken aboard vessels of varying registry. These observations were recorded on magnetic tape in a common format. Elements not in WMO code were converted to this code where possible. Where this was not possible, the original data were retained within the tape record as supplemental data. A very limited quality control was attempted as the punched cards were converted to taped records and, where possible, missing psychrometric data were computed.

Before the tables are prepared, extreme values of selected parameters are scrutinized so that obvious errors can be excluded. This method is necessarily subjective since the only available record of many observations is the punched card from which the tape records were prepared. Frequently there

is no concrete evidence to prove or disprove the validity of questionable data.

Also, it should be noted that these data are based upon observations made by ships in passage. Such ships tend to avoid bad weather when possible, thus biasing the data file toward good weather samples.

Because the number of observations may vary from one table to the other, no absolute relationship exists between the tables. As an example, air temperature counts for Tables 13 and 17 may not be identical since only observations containing both air temperature and relative humidity were counted in Table 13 and only those with both temperature and air-sea temperature difference were counted in Table 17. No requirement for simultaneous recording of all elements was made.

The primary period of record is that period (extending back in time from the most recent data) during which eighty percent of the total number of observations were recorded. The overall period is the earliest to the latest observed data used in compiling the tables. Tables 18 and 19 were tabulated from selected decks only and the overall period indicates the period of record of this data source. The primary period for these tables is not shown.

### THE TABLES

Percentage frequencies are computed to hundredths and rounded to tenths. An asterisk (\*) indicates percentage frequency  $> 0$  and  $< .05$ . A value followed by a plus sign indicates greater than or equal to that value (8+ means 8 or greater). NH = low cloud amount (or middle cloud amount when low clouds are not present). The hours given in this publication are GMT.

The geographic position shown on the tables is the central position (centroid) of the observations within the area.

This value may fall outside irregular areas.

Annual values are computed on the basis of the sum of the monthlies divided by the number of months.

Tables 1 through 19 appear in numerical order for each month, with the annual tables appearing after the tables for December. Tables 20 and 21 appear at the end of the entire series, after the annual summary for Table 19. The series of summaries appear in numerical order by area number.

Table 1 - Percentage Frequency of Weather Occurrence by Wind Direction (8 pts.).

Table 2 - Percentage Frequency of Weather Occurrence by Hour (GMT).

Table 3 - Percentage Frequency of Wind Direction (8 pts.) by Speed and by Hour (GMT). This table includes mean wind speed (kts.) by direction (8 pts.).

Table 3A - Percentage Frequency of Wind Direction (8 pts.) by Speed and by Hour (GMT). This table includes mean wind speed (kts.) by direction.

Table 4 - Percentage Frequency of Wind Speed by Hour (GMT). This table includes mean speed by hour.

Table 5 - Percentage Frequency of Total Cloud Amount (Okta) by Wind Direction (8 pts.). This table includes mean cloud amount by wind direction.

Table 6 - Percentage Frequency of Ceiling Heights (feet, NH > 4/8) and Occurrence of NH < 5/8 by Wind Direction (8 pts.).

Table 7 - Cumulative Percentage Frequency of Occurrence of Ceiling Height (feet, NH > 4/8) and Visibility (Nautical Miles).

Table 7A - Percentage Frequency of Low Cloud Amount (or Middle Cloud Amount if Low Clouds are not present). and Percentage Frequency of Sky Obscured. Amounts are in Oktas.

Table 8 - Percentage Frequency of Wind Direction (8 pts.) vs. Occurrence or Non-Occurrence of Precipitation at Observation Time with Varying Values of Visibility (Nautical Miles).

Table 9 - Percentage Frequency of Wind Direction (8 pts.) vs. Wind Speed (kts.) with Varying Values of Visibility (Nautical Miles).

Table 10 - Percentage Frequency of Ceiling Heights (feet, NH > 4/8) and Occurrence of NH < 5/8 by Hour (GMT).

Table 11 - Percentage Frequency of Visibility (Nautical Miles) by Hour (GMT).

Table 12 - Cumulative Percentage Frequency of Ranges of Visibility (Nautical Miles) and Ceiling Height (feet, NH > 4/8) by Hour (GMT).

Table 13 - Percentage Frequency of Relative Humidity (%) by Air Temperature (° F.).

Table 14 - Percentage Frequency of Wind Direction (8 pts.) by Air Temperature (° F.).

Table 15 - Means, Extremes, and Percentiles of Air Temperature (° F.) by Hour (GMT). Extreme temperatures are the one maximum and one minimum value appearing in the marine data file. The extremes may be unrepresentative due to sampling errors. Extrapolation from the percentile values usually gives a better estimate of expected extreme conditions.

Table 16 - Percentage Frequency of Relative Humidity (%) by Hour (GMT).

Table 17 - Percentage Frequency of Air Temperature (° F.) and the Occurrence of Fog vs. Air-Sea Temperature Difference (° F.).

Air-Sea Temperature Difference is:

Positive when the air is warmer than the sea surface; Negative when the air is cooler than the sea surface. In the table heading, the limits of the temperature ranges appear in a vertical arrangement along the top of the table.

Table 18 - Percentage Frequency of Surface Wind Speed (kts.) and Direction (8 pts.) vs. Sea Height (feet). Source deck 128 for which data are available from mid-1963 was used for these tables. This deck represents the latest and most complete homogeneous source of wave data available. Here, only sea waves generated by local winds in the vicinity of the observer are summarized.



Table 19 - Percentage Frequency of Wave Height (feet) vs. Wave Period (seconds). In this table when both sea and swell waves are present in an observation, the higher of the two is used. If both are the same height, the longer period is chosen. When only one of the wave groups is observed, either sea or swell, it is used in the summary. Swell waves are those generated by winds distant from the local area where the observation is taken.

Tables 1-19 appear together for each month and in the annual summary. The following two tables appear at the end of the entire series for each area.

Note: In this volume, percentage frequencies at specified hours of the day refer to percentages of observations taken at those hours, rather than percentages of observations taken at all hours. Data at adjacent hours are summarized with data at synoptic hours, i.e., data from 02 and 04 GMT are combined with data from 03 GMT.

CONTENTS		
AREA	NAME	PAGES
9	MELBOURNE SE	1-79
10	TASMANIA EAST	80-158
11	TASMANIA WEST	159-237
12	CAPE NELSON	238-316
13	SPENCER GULF	317-395
14	AUSTRALIAN BIGHT SE	396-474
15	AUSTRALIAN BIGHT SW	475-553

Table 20 - Monthly and Annual Percentage Frequencies and Means of Sea Surface Temperature ( $^{\circ}$  F.).

Table 21 - Monthly and Annual Sea Level Pressures (millibars). This table includes means by hour and for all hours, extreme values and percentile values.

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# CONVERSION OF WIND AND WAVE DIRECTION TO 8 POINTS

A reduced bias system was employed in converting wind and wave directions to 8 points. This method attaches weighting values to observations which overlap two different 8 point sectors and treats them as "decimal observation counts." These decimal quantities are rounded to whole numbers for presentation as "observational counts" in the tables. Figures 1-4 below show the 8 point system with other systems superimposed.

Note: Because of rounding, sub-total sums of "observational counts" may not equal grand totals.



Fig 1. The 8 point direction system.

Fig 2. The 16 point direction system superimposed on the 8 point system.

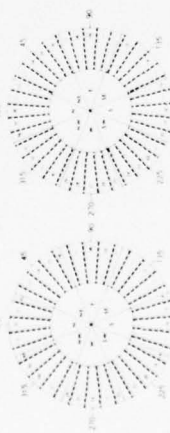


Fig 3. The 32 point direction system superimposed on the 8 point system.

Fig 4. The 64 point direction system superimposed on the 8 point system.

VISIBILITY (VV)		PRESENT WEATHER (1960 WMO CODE 4677)			
CODE	INTERPRETATION (NAUTICAL MILES)	CODE	INTERPRETATION	CODE	INTERPRETATION
90-93	VV<1/2	58-59 60-65 91-94 (68-69, 95, 97 IF TEMP > 40° F)	RAIN	10-12 40-49	FOG (WITHOUT PRECIPITATION)
94	1/2<VV<1	80-82, (83-84 IF TEMP > 40° F)	RAIN SHOWERS	28	FOG (WITHOUT PRECIPITATION PAST HOUR)
95	1<VV<2	50-55, 58-59	DRIZZLE	04-05	SMOKE HAZE
96	2<VV<5	56-57 66-67	FREEZING PRECIPITATION	06-09 30-39	SPRAY BLOWING DUST BLOWING SNOW
97	5<VV<10	70-75, 85-86 (68-69, 83-84, 95, 97 IF TEMP ≤ 40° F)	SNOW	00-03 14-16 18	NO SIGNIFICANT WEATHER AT OB TIME
98	10<VV<25	76-79	OTHER FROZEN PRECIPITATION	00-49	NO PRECIPITATION AT OB TIME
99	VV≥25	87-90 93-94 96, 99	HAIL	50-99	PRECIPITATION AT OB TIME
		13, 17 19, 29 95-99	THUNDER LIGHTNING THUNDERSTORM	20-27	PRECIPITATION PAST HOUR
NOTE:	<means less than; >means greater than; ≤means less than or equal to				

NOTE: The following WMO codes were counted in two weather categories. 58-59 (rain and drizzle); 68-69 (rain and snow); 93-94 (rain and hail); 96 and 99 (hail and thunder/lightning/thunderstorm); 95 and 97 (snow and thunder/lightning/thunderstorm), or (rain and thunder/lightning/thunderstorm).

WAVE HEIGHT (from source decks 128 and 116)

RECORDED CODE (HALF METERS)	RANGE (METERS)	AS RECORDED IN TABULATION (FEET)	RECORDED CODE (HALF METERS)	RANGE (METERS)	AS RECORDED IN TABULATION (FEET)	RECORDED CODE (HALF METERS)	RANGE (METERS)	AS RECORDED IN TABULATION (FEET)
00	≤.25}	<1	12	>5.75 to 6.25}	20-22	30	>14.75 to 15.25}	
01	>.25 to .75}	1-2	13	>6.25 to 6.75}		31	>15.25 to 15.75}	
02	>.75 to 1.25}	3-4	14	>6.75 to 7.25}	23-25	32	>15.75 to 16.25}	49-60
03	>1.25 to 1.75}	5-6	15	>7.25 to 7.75}		33	>16.25 to 16.75}	
04	>1.75 to 2.25}	7	16	>7.75 to 8.25}		34	>16.75 to 17.25}	
05	>2.25 to 2.75}	8-9	17	>8.25 to 8.75}	26-32	35	>17.25 to 17.75}	
06	>2.75 to 3.25}	10-11	18	>8.75 to 9.25}		36	>17.75 to 18.25}	
07	>3.25 to 3.75}	12	19	>9.25 to 9.75}				
08	>3.75 to 4.25}	13-16	20	>9.75 to 10.25}		37	>18.25 to 18.75}	61-70
09	>4.25 to 4.75}		21	>10.25 to 10.75}	33-40	38	>18.75 to 19.25}	
10	>4.75 to 5.25}	17-19	22	>10.75 to 11.25}		39	>19.25 to 19.75}	
11	>5.25 to 5.75}		23	>11.25 to 11.75}		40	>19.75 to 20.25}	
			24	>11.75 to 12.25}		41	>20.25 to 20.75}	
			25	>12.25 to 12.75}		42	>20.75 to 21.25}	
			26	>12.75 to 13.25}				
			27	>13.25 to 13.75}	41-48	43	>21.25 to 21.75}	71-86
			28	>13.75 to 14.25}		44	>21.75 to 22.25}	
			29	>14.25 to 14.75}		45	>22.25 to 22.75}	
						46	>22.75 to 23.25}	
						47	>23.25 to 23.75}	
						48	>23.75 to 24.25}	
						49	>24.25 to 24.75}	
						50	>24.75 to 25.25}	
						51	>25.25 to 25.75}	
						52	>25.75 to 26.25}	
						53-99	>26.25 to 49.75}	≥87

Indeterminate=INDET

PERIOD: (PRIMARY) 1893-1972  
(OVER-ALL) 1857-1972

JANUARY

AREA 0009 MELBOURNE SE  
38.55 146.9E

TABLE 1

PERCENT FREQUENCY OF WEATHER OCCURRENCE BY WIND DIRECTION

WIND DIR	PRECIPITATION TYPE								OTHER WEATHER PHENOMENA							
	RAIN	RAIN SHWR	DRZL	FRZG PCPN	SNOW	OTHER FRZN PCPN	HAIL	PCPN AT DB TIME	PCPN PAST HOUR	THOR LTNG	FGG WD PCPN	FGG WD PCPN PAST HR	SMOKE HAZE	SPRAY BLWG DUST	NO SIG WEA	
N	2.0	1.2	.8	.0	.0	.0	.4	4.3	.0	3.9	16.0	.0	3.1	.0	74.6	
NE	2.1	.5	.7	.0	.0	.0	.3	3.6	1.0	3.1	13.8	.0	3.9	.0	75.7	
E	.5	1.8	.4	.0	.0	.0	.1	2.8	.0	2.3	11.8	.0	3.1	.0	80.0	
SE	.9	2.1	2.1	.0	.0	.0	.2	5.3	.1	1.2	4.4	.0	1.5	.0	87.7	
S	3.1	3.5	1.6	.0	.0	.0	.2	8.4	1.3	.8	6.9	.0	1.2	.0	82.3	
SW	2.3	4.0	1.7	.0	.0	.0	.2	8.3	1.1	1.7	5.2	.0	1.1	.0	83.4	
W	1.9	5.9	1.9	.0	.0	.0	.3	10.0	1.6	1.9	4.4	.0	1.0	.0	81.7	
NW	4.5	3.8	.5	.0	.0	.0	.9	9.7	.0	1.4	4.3	.0	1.2	.0	84.4	
VAR	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
CALM	4.2	.0	.0	.0	.0	.0	.0	4.2	.0	.0	12.5	.0	8.3	.0	75.0	
TOT PCT	2.0	3.2	1.3	.0	.0	.0	.3	6.8	.8	1.9	7.8	.0	1.9	.0	81.4	
TOT OBS:	2528															

TABLE 2

PERCENT FREQUENCY OF WEATHER OCCURRENCE BY HOUR

HOUR (GMT)	PRECIPITATION TYPE								OTHER WEATHER PHENOMENA							
	RAIN	RAIN SHWR	DRZL	FRZG PCPN	SNOW	OTHER FRZN PCPN	HAIL	PCPN AT DB TIME	PCPN PAST HOUR	THOR LTNG	FGG WD PCPN	FGG WD PCPN PAST HR	SMOKE HAZE	SPRAY BLWG DUST	NO SIG WEA	
00003	1.3	3.2	.9	.0	.0	.0	.4	5.7	1.6	.4	8.1	.0	2.5	.0	81.8	
06009	1.4	3.1	.9	.0	.0	.0	.1	5.5	.6	1.9	10.3	.0	2.8	.0	79.8	
12015	2.1	2.2	1.7	.0	.0	.0	.4	6.4	.4	3.6	4.7	.0	1.3	.0	85.0	
18021	2.9	3.5	2.1	.0	.0	.0	.3	8.8	.7	2.0	8.7	.0	1.3	.0	79.1	
TOT PCT	1.9	3.1	1.4	.0	.0	.0	.3	6.7	.8	1.9	8.2	.0	2.0	.0	81.1	
TOT OBS:	2644															

TABLE 3

PERCENTAGE FREQUENCY OF WIND DIRECTION BY SPEED AND BY HOUR

WIND DIR	WIND SPEED (KNOTS)								48+	TOTAL DBS	PCT FREQ	MEAN SPD	HOUR (GMT)							
	0-3	4-10	11-21	22-33	34-47	00	03	06					09	12	15	18	21			
N	.7	2.9	1.4	.3	.0	.0		5.3	9.4	4.4	5.6	4.1	4.9	3.4	4.4	6.4	8.3			
NE	1.0	6.4	4.1	.9	.0	.0		12.4	10.5	14.3	13.2	10.5	12.5	11.5	12.3	11.9	14.3			
E	1.1	7.5	5.7	1.5	.2	.0		16.0	11.9	9.6	17.5	17.2	16.4	13.3	17.9	15.9	14.7			
SE	.8	5.3	2.7	.2	.1	.0		9.2	10.0	8.0	8.9	13.2	10.8	8.0	8.0	7.3	6.8			
S	1.0	5.6	3.1	.5	.1	.0		10.2	10.1	9.5	9.2	12.2	12.2	9.5	10.7	9.5	7.4			
SW	1.0	8.4	10.0	4.3	.4	.0		24.1	14.4	27.6	23.0	24.2	23.1	31.0	22.5	23.8	23.4			
W	.7	4.8	6.6	3.7	.9	.1		16.7	16.7	20.3	16.7	14.9	14.3	18.5	17.2	16.8	18.5			
NW	.2	2.3	1.0	.5	.0	.0		4.1	11.5	5.0	3.9	2.7	3.8	2.8	3.9	5.8	5.1			
VAR	.0	.0	.0	.0	.0	.0		.0	.0	.0	.0	.0	.0	.0	.0	.0	.0			
CALM	1.9							1.9	.0	1.2	2.0	.9	2.0	1.7	3.1	2.5	1.6			
TOT DBS	318	1628	1308	451	66	4	3775		12.4	241	591	657	502	240	487	607	450			
TOT PCT	8.4	43.1	34.6	11.9	1.7	.1		100.0		100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0			

TABLE 3A

WIND DIR	WIND SPEED (KNOTS)					41+	TOTAL DBS	PCT FREQ	MEAN SPD	HOUR (GMT)			
	0-6	7-16	17-27	28-40						00	06	12	18
N	2.3	2.2	.7	.1	.0			5.3	9.4	5.3	4.4	4.1	7.2
NE	3.9	6.5	1.8	.3	.0			12.4	10.5	13.5	11.4	12.0	12.9
E	3.5	8.9	2.9	.8	.0			16.0	11.9	15.2	16.9	16.4	15.4
SE	2.4	5.7	.9	.1	.1			9.2	10.0	8.6	12.2	8.0	7.1
S	3.4	5.2	1.5	.1	.0			10.2	10.1	9.3	12.2	10.3	8.6
SW	3.8	11.2	7.4	1.7	.1			24.1	14.4	24.3	23.7	25.3	23.6
W	2.4	6.6	5.0	2.4	.4			16.7	16.7	17.8	14.7	17.7	17.5
NW	1.2	1.8	.9	.2	.0			4.1	11.5	4.2	3.2	3.5	5.5
VAR	.0	.0	.0	.0	.0			.0	.0	.0	.0	.0	.0
CALM	1.9							1.9	.0	1.8	1.4	2.6	2.1
TOT DBS	933	1807	795	220	20	3775			12.4	832	1159	727	1057
TOT PCT	24.7	47.9	21.1	5.8	.5			100.0		100.0	100.0	100.0	100.0

PERIOD: (PRIMARY) 1893-1972  
(OVER-ALL) 1857-1972

JANUARY

AREA 0009 MELBOURNE SE  
38.55 146.9E

TABLE 4

PERCENTAGE FREQUENCY OF WIND SPEED BY HOUR (GMT)

HOUR	CALM	1-3	4-10	WIND SPEED (KNOTS)			48+	MEAN	PCT FREQ	TOTAL OBS
				11-21	22-33	34-47				
0000	1.8	6.4	46.5	31.6	12.0	1.7	.0	12.1	100.0	832
0600	1.4	6.4	39.9	36.8	13.5	2.0	.0	13.1	100.0	1159
1200	2.6	5.8	43.6	35.5	10.3	1.8	.4	12.3	100.0	727
1800	2.1	7.3	43.7	34.1	11.3	1.5	.1	11.9	100.0	1057
TOT	72	240	1628	1308	451	66	4	12.4		3775
PCT	1.9	6.5	43.1	34.6	11.9	1.7	.1	100.0		

TABLE 5

PCT FREQ OF TOTAL CLOUD AMOUNT (EIGHTHS)  
BY WIND DIRECTION

WIND DIR	0-2	3-4	5-7	8-6	TOTAL OBS	MEAN CLOUD COVER
			OBSCD			
N	1.5	1.0	1.0	.8		4.0
NE	7.2	1.4	2.8	1.4		3.0
E	6.5	1.4	1.4	1.4		2.8
SE	4.8	1.8	2.0	1.7		3.4
S	2.9	1.8	2.5	1.7		4.3
SW	9.1	5.9	8.6	6.1		4.4
W	4.5	3.6	6.7	2.9		4.6
NW	1.6	.6	1.4	.7		4.1
VAR	.0	.0	.0	.0		.0
CALM	1.1	.1	.0	.1		1.8
TOT OBS	281	126	190	121	718	3.9
TOT PCT	39.1	17.5	26.5	16.9	100.0	

TABLE 6

PERCENTAGE FREQUENCY OF CEILING HEIGHTS (FT, NH >4/8)  
AND OCCURRENCE OF NH <5/8 BY WIND DIRECTION

000	150	300	600	1000	2000	3500	5000	6500	8000+	NH <5/8	TOTAL
149	299	599	999	1999	3499	4999	6499	7999		ANY HGT	OBS
.0	.0	.0	.3	.1	.1	.2	.0	.0	.1	3.2	
.0	.0	.1	.4	1.0	1.1	.1	.1	.0	.1	9.8	
.1	.0	.0	.1	.6	.7	.1	.1	.0	.1	8.8	
.0	.0	.0	.0	1.0	.6	.6	.3	.0	.0	7.8	
.0	.0	.3	.5	1.1	.7	.3	.0	.0	.0	6.0	
.0	.1	.2	2.1	5.3	1.5	1.3	.1	.0	.3	18.9	
.0	.0	.2	1.7	2.6	.7	.7	.3	.3	.1	11.0	
.0	.0	.0	.7	.2	.5	.1	.0	.0	.0	2.8	
.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
.0	.0	.0	.0	.1	.0	.0	.0	.0	.0	1.3	
1	1	5	41	89	42	25	7	2	6	499	718
.1	.1	.7	5.7	12.4	5.8	3.5	1.0	.3	.8	69.5	100.0

TABLE 7

CUMULATIVE PCT FREQ OF SIMULTANEOUS OCCURRENCE  
OF CEILING HEIGHT (NH >4/8) AND VSBY (NM)

CEILING (FEET)	VSBY (NM)							
	>10	>5	>2	>1	>1/2	>1/4	>50YD	>0
>4500	1.2	1.4	1.4	1.4	1.4	1.4	1.4	1.4
>4000	2.0	2.3	2.3	2.3	2.3	2.3	2.3	2.3
>3500	4.7	5.7	5.7	5.7	5.7	5.7	5.7	5.7
>3000	9.7	11.2	11.5	11.5	11.5	11.5	11.5	11.5
>2500	18.8	23.0	23.5	23.6	23.6	23.6	23.6	23.6
>2000	23.1	28.2	29.1	29.2	29.2	29.2	29.2	29.2
>1500	23.2	28.8	29.7	29.9	29.9	29.9	29.9	29.9
>1000	23.2	28.8	29.7	30.0	30.0	30.0	30.0	30.0
>500	23.2	28.8	29.7	30.0	30.0	30.1	30.1	30.1
>0	23.2	28.8	29.7	30.0	30.0	30.1	30.1	30.1
TOTAL	172	213	220	222	222	223	223	223

TOTAL NUMBER OF OBS: 740

PCT FREQ NH <5/8: 69.9

TABLE 7A

PERCENTAGE FREQ OF LOW CLOUDS (EIGHTHS)

0	1	2	3	4	5	6	7	8	OBSCD	TOTAL OBS
15.8	21.3	13.6	10.1	7.4	5.6	5.8	7.6	12.7	.1	860



PERIOD: (PRIMARY) 1893-1972  
(OVER-ALL) 1857-1972

JANUARY

AREA 0009 MELBOURNE SE  
38.55 146.9E

TABLE 8

PERCENT FREQ OF WIND DIRECTION VS OCCURRENCE OR NON-OCCURRENCE OF  
PRECIPITATION WITH VARYING VALUES OF VISIBILITY

VSBY (NM)		N	NE	E	SE	S	SW	W	NW	VAR	CALM	PCT	TOTAL OBS
<1/2	PCP	.0	.0	.1	.1	.0	.2	.0	.0	.0	.0	.4	
	NO PCP	.1	.2	.1	.1	.1	.0	.1	.1	.0	.1	.8	
	TOT %	.1	.2	.2	.2	.1	.2	.1	.1	.0	.1	1.2	
1/2<1	PCP	*	*	.1	.1	.0	.1	.1	.1	.0	.0	.5	
	NO PCP	.8	1.5	1.5	.2	.3	.6	.9	*	.0	.0	5.6	
	TOT %	.8	1.5	1.6	.3	.3	.6	1.0	.1	.0	.0	6.1	
1<2	PCP	.0	.0	.0	.0	*	.1	.0	.0	.0	.0	.1	
	NO PCP	.1	.2	.2	.1	.2	.3	.1	*	.0	.0	1.1	
	TOT %	.1	.2	.2	.1	.2	.4	.1	*	.0	.0	1.2	
2<5	PCP	.0	.0	*	*	.1	.1	.1	.0	.0	.0	.4	
	NO PCP	*	.1	*	*	.1	.3	.2	*	.0	.0	.8	
	TOT %	*	.1	.1	.1	.2	.4	.3	*	.0	.0	1.2	
5<10	PCP	.1	.3	.2	.2	.6	1.3	1.2	.3	.0	.0	4.2	
	NO PCP	2.2	4.6	7.2	3.4	4.0	9.4	9.2	1.9	.0	.4	42.4	
	TOT %	2.4	4.9	7.4	3.6	4.6	10.7	10.4	2.2	.0	.4	46.6	
10+	PCP	*	.1	.1	.0	.1	.3	.4	*	.0	*	1.2	
	NO PCP	1.7	5.0	6.1	4.3	4.8	12.1	6.7	1.6	.0	.4	42.5	
	TOT %	1.7	5.1	6.2	4.3	4.9	12.4	7.2	1.7	.0	.5	43.7	
TOT OBS													
TOT PCT													
		5.1	12.0	15.6	8.5	10.0	24.7	19.0	4.2	.0	.9	100.0	2528

TABLE 9

PERCENT FREQ OF WIND DIRECTION VS WIND SPEED  
WITH VARYING VALUES OF VISIBILITY

VSBY (NM)	SPD KTS	N	NE	E	SE	S	SW	W	NW	VAR	CALM	PCT	TOTAL OBS
<1/2	0-3	.0	.0	*	*	*	*	.0	*	.0	.1	.2	
	4-10	.1	.1	.1	.1	*	.1	*	.1	.0	.7		
	11-21	.0	*	*	.0	.0	*	*	.0	.0	.1		
	22+	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0		
	TOT %	.1	.2	.2	.2	.1	.2	.1	.1	.0	.1	1.0	
1/2<1	0-3	.1	.2	.1	.0	.1	*	*	.0	.0	*	.7	
	4-10	.4	.9	.6	.1	*	.3	.4	*	.0	2.8		
	11-21	.1	.1	.3	*	.1	.1	.1	*	.0	.9		
	22+	.1	.2	.4	.1	.0	.1	.3	*	.0	1.2		
	TOT %	.7	1.4	1.4	.3	.2	.5	.9	.1	.0	*	5.5	
1<2	0-3	.0	.0	.0	.0	.0	*	.0	.0	.0	.0	*	
	4-10	.1	.2	*	*	.1	.1	*	*	.0	.5		
	11-21	*	.1	.1	*	*	.1	*	*	.0	.5		
	22+	.0	.0	.1	.0	.1	.1	.1	.0	.0	.3		
	TOT %	.1	.2	.2	.1	.2	.3	.1	.1	.0	.0	1.3	
2<5	0-3	.0	.0	*	.1	.1	.0	.0	.0	.0	*	.2	
	4-10	*	*	.1	.1	*	.3	.2	.1	.0	1.0		
	11-21	.0	.1	.1	.1	.1	.2	.1	.0	.0	.7		
	22+	.0	*	.2	*	.1	.2	*	.0	.0	.5		
	TOT %	*	.2	.5	.4	.2	.7	.3	.1	.0	*	2.4	
5<10	0-3	.3	.4	.5	.3	.2	.4	.3	.2	.0	.4	3.0	
	4-10	1.1	2.1	3.5	1.7	2.3	3.3	2.1	.8	.0	16.9		
	11-21	.6	1.6	2.5	1.5	1.6	3.7	3.3	.6	.0	15.5		
	22+	.1	.4	.6	.1	.3	2.7	4.0	.6	.0	8.7		
	TOT %	2.1	4.5	7.0	3.6	4.4	10.1	9.7	2.2	.0	.4	44.1	
10+	0-3	.2	.4	.4	.5	.5	.4	.2	.1	.0	.7	3.4	
	4-10	1.1	2.8	2.8	2.9	2.7	4.8	2.3	1.2	.0	20.5		
	11-21	.5	1.9	2.9	1.1	1.5	6.2	3.7	.4	.0	18.2		
	22+	.1	.1	.3	.1	.1	1.8	1.1	*	.0	3.7		
	TOT %	1.9	5.2	6.3	4.5	4.8	13.2	7.4	1.7	.0	.7	45.8	
TOT OBS													
TOT PCT													
		4.9	11.7	15.6	9.0	9.9	25.1	18.4	4.1	.0	1.3	100.0	2872

## JANUARY

PERIOD: (PRIMARY) 1893-1972  
(OVER-ALL) 1857-1972

AREA 0009 MELBOURNE SE  
38.55 146.9E

TABLE 10

PERCENT FREQUENCY OF CEILING HEIGHTS (FEET, NH >4/8) AND  
OCCURRENCE OF NH <5/8 BY HOUR

HR	000	150	300	600	1000	2000	3500	5000	6500	8000+	TOTAL	NH <5/8 ANY HGT	TOTAL OBS
(GMT)	149	299	599	999	1999	3499	4999	6499	7999				
00003	.0	.4	.0	5.7	13.1	5.7	4.1	1.2	.8	1.2	32.4	67.6	244
06009	.0	.0	1.5	2.5	8.1	6.1	1.0	.5	.0	.5	20.2	79.8	198
12015	.0	.0	1.0	3.0	10.9	3.0	2.5	1.0	.0	1.5	22.9	77.1	201
18021	.0	.0	.0	9.6	12.0	6.6	4.8	.6	.0	.6	34.7	65.3	167
TOT	1	1	5	41	90	43	25	7	2	8	223	587	810
PCT	.1	.1	.6	5.1	11.1	5.3	3.1	.9	.2	1.0	27.5	72.5	100.0

TABLE 11

PERCENT FREQUENCY VSBY (NM) BY HOUR

HR	<1/2	1/2<1	1<2	2<5	5<10	10+	TOTAL
(GMT)							OBS
00003	1.8	5.5	1.1	2.9	36.9	51.9	621
06009	1.3	6.7	1.3	2.5	48.8	39.3	909
12015	.8	3.0	1.0	2.3	39.5	53.4	607
18021	1.3	6.8	1.5	1.5	48.8	40.0	854
TOT	39	171	38	68	1330	1345	2991
PCT	1.3	5.7	1.3	2.3	44.5	45.0	100.0

TABLE 12

CUMULATIVE PCT FREQ OF RANGES OF VSBY (NM) AND/OR  
CEILING HGT (FEET, NH >4/8), BY HOUR

HR	<150	<600	<1000	1000+	NH <5/8	TOTAL
(GMT)	<500	<1	<5	AND 5+	AND 5+	OBS
00003	.0	.4	8.4	26.4	65.2	227
06009	.0	1.7	6.3	18.2	75.6	176
12015	.0	1.1	4.3	20.7	75.0	184
18021	.7	.7	12.4	26.1	61.4	153
TOT	1	7	57	170	513	740
PCT	.1	.9	7.7	23.0	69.3	100.0

TABLE 13

PERCENT FREQUENCY OF RELATIVE HUMIDITY BY TEMP

TEMP F	0-29	30-39	40-49	50-59	60-69	70-79	80-89	90-100	TOTAL	PCT
									OBS	FREQ
80/84	.0	.0	.0	.2	.0	.1	.0	.0	3	.2
75/79	.0	.0	.1	.3	.7	1.0	.1	.0	27	2.1
70/74	.0	.0	.0	.4	1.2	2.0	.6	.0	80	6.4
65/69	.0	.0	.0	.6	3.5	7.1	8.0	.5	310	24.7
60/64	.0	.1	.2	1.7	10.7	13.8	15.6	6.8	614	48.9
55/59	.0	.0	.0	.6	4.5	7.1	3.7	1.1	214	17.0
50/54	.0	.0	.0	.0	.2	.0	.4	.1	8	.6
TOTAL	0	1	3	50	261	389	375	177	1256	100.0
PCT	.0	.1	.2	4.0	20.8	31.0	29.9	14.1		

TABLE 14

PERCENT FREQUENCY OF WIND DIRECTION BY TEMP

N	NE	E	SE	S	SW	W	NW	VAR	CALM
.0	.2	.1	.0	.0	.0	.0	.0	.0	.0
.3	.5	.3	.1	.5	.2	.3	.1	.0	.0
.5	1.5	1.1	.7	.5	.9	.3	.3	.0	.7
2.1	5.2	3.4	2.6	3.2	4.3	2.5	1.0	.0	.5
1.5	3.9	6.1	4.8	5.1	15.5	9.7	1.8	.0	.5
.4	.4	1.3	.8	2.4	8.2	3.2	.5	.0	.0
.0	.0	.0	.0	.0	.2	.4	.1	.0	.0
4.7	11.6	12.2	8.9	11.6	29.3	16.3	3.7	.0	1.7

TABLE 15

MEANS, EXTREMES AND PERCENTILES OF TEMP (DEG F) BY HOUR

HR	MAX	99%	95%	50%	5%	1%	MIN	MEAN	TOTAL
(GMT)									OBS
00003	81	77	72	64	59	55	53	64.8	821
06009	82	77	72	64	58	56	54	64.4	1147
12015	78	72	68	62	57	55	54	62.3	741
18021	77	72	68	62	57	54	49	62.3	1089
TOT	82	75	71	63	57	55	49	63.5	3798

TABLE 16

PERCENT FREQUENCY OF RELATIVE HUMIDITY BY HOUR

HR	0-29	30-59	60-69	70-79	80-89	90-100	MEAN	TOTAL
(GMT)								OBS
00003	.0	8.4	27.2	33.2	21.1	10.1	74	298
06009	.0	5.9	23.1	32.7	27.6	10.7	76	373
12015	.0	2.1	15.7	28.9	38.0	15.3	80	287
18021	.0	1.2	15.5	28.1	33.1	22.1	81	335
TOT	0	57	264	398	386	188	78	1293

PERIOD: (PRIMARY) 1893-1972  
(OVER-ALL) 1857-1972

JANUARY

AREA 0009 MELBOURNE SE  
38.55 146.9E

TABLE 17

PCT FREQ OF AIR TEMPERATURE (DEG F) AND THE OCCURRENCE OF FOG (WITHOUT PRECIPITATION)  
VS AIR-SEA TEMPERATURE DIFFERENCE (DEG F)

AIR-SEA TMP DIF	49 52	53 56	57 60	61 64	65 68	69 72	73 76	77 80	81 84	TOT	W FOG	WD FOG
17/19	.0	.0	.0	.0	.0	.0	.0	*	*	2	.0	.1
14/16	.0	.0	.0	.0	.0	.0	.0	*	*	1	.0	*
11/13	.0	.0	.0	.0	.0	.0	.3	.1	*	10	.1	.4
9/10	.0	.0	.0	.0	.0	.5	.5	.1	*	27	.4	.9
7/8	.0	.0	.0	*	.3	1.5	.5	.0	.0	52	.5	1.9
6	.0	.0	.0	*	.5	1.1	.2	.2	.0	46	.2	1.9
5	.0	.0	.0	*	1.8	1.4	*	*	.0	73	.7	2.6
4	.0	.0	*	.5	2.4	1.2	*	.0	.0	91	.5	3.6
3	.0	.0	*	1.2	3.9	.8	.1	.0	.0	132	.8	5.2
2	.0	*	.2	3.3	5.7	.9	.1	.0	.0	223	1.3	8.8
1	.0	.0	.6	5.7	3.5	.5	.0	.0	.0	229	1.3	9.1
0	.0	.0	2.0	8.2	3.0	.4	.1	.0	.0	301	1.1	12.6
-1	.0	.0	3.4	6.5	1.4	*	.0	.0	.0	252	.6	10.8
-2	.0	.1	4.1	7.2	1.4	*	.0	.0	.0	285	.6	12.3
-3	.0	.4	3.8	2.8	.4	.1	.0	.0	.0	164	.2	7.2
-4	.0	.5	3.4	2.4	.2	.0	.0	.0	.0	146	.2	6.4
-5	.0	.3	2.0	.9	.2	.0	.0	.0	.0	75	.0	3.4
-6	.0	*	1.4	.4	.2	*	.0	.0	.0	45	.0	2.0
-7/-8	*	.6	.6	.3	.2	.0	.0	.0	.0	39	.1	1.7
-9/-10	*	.1	.1	.1	*	.0	.0	.0	.0	11	.1	.4
-11/-13	*	*	.0	*	.0	.0	.0	.0	.0	3	.0	.1
TOTAL	3		481		557		44		3	2207	189	2018
PCT	.1	2.2	21.8	39.6	25.2	8.4	2.0	.5	.1	100.0	8.6	91.4

PERIOD: (OVER-ALL) 1963-1972

TABLE 18

PCT FREQ OF WIND SPEED (KTS) AND DIRECTION VERSUS SEA HEIGHTS (FT)

HGT	1-3	4-10	11-21	22-33	34-47	48+	PCT	1-3	4-10	11-21	22-33	34-47	48+	PCT
<1	.3	.0	.0	.0	.0	.0	.3	.4	1.3	.0	.0	.0	.0	1.7
1-2	.2	1.3	.2	.0	.0	.0	1.6	.3	1.8	1.1	.0	.0	.0	3.3
3-4	.0	.5	.2	.0	.0	.0	.6	.2	1.0	2.1	.0	.0	.0	3.2
5-6	.0	.0	.5	.3	.0	.0	.8	.0	.7	1.1	*	.0	.0	1.9
7	.0	.0	.2	.0	.0	.0	.2	.0	.5	.0	.0	.0	.0	.5
8-9	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
10-11	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
12	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
13-16	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.2	.0	.0	.2
17-19	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
20-22	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
23-25	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
26-32	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
33-40	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
41-48	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
49-60	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
61-70	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
71-86	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
87+	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
TOT PCT	.5	1.8	1.0	.3	.0	.0	3.5	.9	4.7	4.9	.2	.0	.0	10.7

HGT	1-3	4-10	11-21	22-33	34-47	48+	PCT	1-3	4-10	11-21	22-33	34-47	48+	PCT
<1	.8	1.4	.1	.0	.0	.0	2.3	.8	1.1	*	.0	.0	.0	1.9
1-2	.2	2.4	1.4	.0	.0	.0	3.9	.2	2.7	.2	.0	.0	.0	3.1
3-4	.0	1.4	2.4	.2	.0	.0	3.9	.0	2.2	1.0	.0	.0	.0	3.3
5-6	.0	.0	1.2	.1	.0	.0	1.3	.0	.0	1.1	*	.0	.0	1.2
7	.0	.0	.0	.0	.0	.0	.0	.0	.0	*	.0	.0	.0	.0
8-9	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.2	.0	.0	.2
10-11	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
12	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
13-16	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
17-19	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
20-22	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
23-25	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
26-32	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
33-40	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
41-48	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
49-60	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
61-70	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
71-86	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
87+	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
TOT PCT	1.0	5.1	5.0	.3	.0	.0	11.4	1.0	5.1	2.4	.2	.0	.0	9.7



PERIOD: (OVER-ALL) 1963-1972

JANUARY

AREA 0009 MELBOURNE SE  
38.55 146.9E

TABLE 18 (CONT)

PCT FREQ OF WIND SPEED (KTS) AND DIRECTION VERSUS SEA HEIGHTS (FT)

HGT	S							SW							PCT
	1-3	4-10	11-21	22-33	34-47	48+	PCT	1-3	4-10	11-21	22-33	34-47	48+	PCT	
<1	1.3	2.0	.0	.0	.0	.0	3.3	.5	.2	.0	.0	.0	.0	.0	1.0
1-2	.1	3.0	.6	.0	.0	.0	3.8	.3	4.1	2.2	.0	.0	.0	.0	6.7
3-4	.0	.9	1.4	.0	.0	.0	2.3	.0	3.3	5.0	.2	.0	.0	.0	8.6
5-6	.0	.0	.9	.0	.0	.0	.9	.0	.8	5.7	1.0	.0	.0	.0	7.5
7	.0	.2	.6	.0	.0	.0	.8	.0	.0	2.0	2.0	.4	.0	.0	4.3
8-9	.0	.0	.0	.0	.0	.0	.0	.0	.0	.1	.5	.0	.0	.0	.6
10-11	.0	.0	.0	.0	.0	.0	.0	.0	.0	.2	.0	.0	.0	.0	.2
12	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
13-16	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.2	.3	.0	.0	.5
17-19	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.2	.0	.0	.0	.2
20-22	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.1	.0	.0	.0	.1
23-25	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
26-32	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
33-40	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
41-48	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
49-60	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
61-70	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
71-86	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
87+	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
TOT PCT	1.4	6.2	3.5	.0	.0	.0	11.1	.8	8.7	15.2	4.2	.7	.0	.0	29.7

HGT	W							NW							PCT	TOTAL PCT
	1-3	4-10	11-21	22-33	34-47	48+	PCT	1-3	4-10	11-21	22-33	34-47	48+	PCT		
<1	.3	1.3	.0	.0	.0	.0	1.6	.2	.4	.0	.0	.0	.0	.0	.6	
1-2	.0	2.0	1.2	.0	.0	.0	3.3	.0	1.4	.2	.0	.0	.0	.0	1.6	
3-4	.0	.8	2.7	.1	.0	.0	3.7	.0	.8	.3	.0	.0	.0	.0	1.1	
5-6	.0	.6	3.6	.8	.0	.0	5.0	.0	.0	.4	.0	.0	.0	.0	.4	
7	.0	.0	1.4	.7	.1	.0	2.2	.0	.0	.2	.0	.0	.0	.0	.2	
8-9	.0	.0	.6	.6	.0	.0	1.2	.0	.0	.0	.0	.0	.0	.0	.0	
10-11	.0	.0	.1	.5	.0	.0	.6	.0	.0	.0	.0	.0	.0	.0	.0	
12	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
13-16	.0	.0	.2	.0	.0	.0	.2	.0	.0	.0	.0	.0	.0	.0	.0	
17-19	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
20-22	.0	.0	.0	.3	.2	.0	.6	.0	.0	.0	.0	.0	.0	.0	.0	
23-25	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
26-32	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
33-40	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
41-48	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
49-60	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
61-70	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
71-86	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
87+	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
TOT PCT	.3	4.7	9.8	3.0	.3	.0	18.2	.2	2.6	1.0	.0	.0	.0	.0	3.8	98.1

WIND SPEED (KTS) VS SEA HEIGHT (FT)

HGT	0-3	4-10	11-21	22-33	34-47	48+	PCT	TOT DBS
<1	8.0	7.8	.2	.0	.0	.0	15.9	
1-2	1.5	18.4	7.0	.0	.0	.0	26.9	
3-4	.2	10.8	14.8	.5	.0	.0	26.2	
5-6	.0	2.0	14.3	2.3	.0	.0	18.6	
7	.0	.2	4.8	2.7	.5	.0	8.1	
8-9	.0	.0	.7	1.3	.0	.0	2.0	
10-11	.0	.0	.3	.5	.0	.0	.8	
12	.0	.0	.0	.0	.0	.0	.0	
13-16	.0	.0	.2	.3	.0	.0	.8	
17-19	.0	.0	.0	.2	.0	.0	.2	
20-22	.0	.0	.0	.3	.2	.0	.5	
23-25	.0	.0	.0	.0	.0	.0	.0	
26-32	.0	.0	.0	.0	.0	.0	.0	
33-40	.0	.0	.0	.0	.0	.0	.0	
41-48	.0	.0	.0	.0	.0	.0	.0	
49-60	.0	.0	.0	.0	.0	.0	.0	
61-70	.0	.0	.0	.0	.0	.0	.0	
71-86	.0	.0	.0	.0	.0	.0	.0	
87+	.0	.0	.0	.0	.0	.0	.0	
TOT PCT	9.6	39.1	42.1	8.1	1.0	.0	100.0	603

PERIOD: (OVER-ALL) 1949-1972

TABLE 19

PERCENT FREQUENCY OF WAVE HEIGHT (FT) VS WAVE PERIOD (SECONDS)

PERIOD (SEC)	<1	1-2	3-4	5-6	7	8-9	10-11	12	13-16	17-19	20-22	23-25	26-32	33-40	41-48	49-60	61-70	71-86	87+	TOTAL	MEAN HGT
<6	1.5	9.9	12.5	7.8	3.0	.5	.1	.1	.3	.3	.0	.0	.0	.0	.0	.0	.0	.0	.0	268	4
6-7	.0	2.1	6.5	12.1	5.8	1.9	.7	.5	.3	.1	.0	.0	.1	.0	.0	.0	.0	.0	.0	239	5
8-9	.0	.4	1.5	1.7	2.6	2.6	1.2	.8	.5	.0	.4	.0	.0	.0	.0	.0	.0	.0	.0	87	8
10-11	.0	.7	.7	1.2	1.1	1.3	.5	.0	.5	.0	.3	.1	.0	.0	.0	.0	.0	.0	.0	48	8
12-13	.0	.0	.1	.1	.4	.1	.1	.3	.1	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	13	8
>13	.0	.0	.0	.0	.3	.1	.0	.0	.1	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	4	9
NOFT	4.8	2.1	2.8	1.6	.1	.1	.1	.0	.0	.1	.0	.0	.0	.0	.0	.0	.0	.0	.0	89	2
TOTAL	47	114	194	183	98	50	21	13	14	4	5	1	1	0	0	0	0	0	0	745	5
PCT	6.3	15.3	26.0	24.6	13.2	6.7	2.8	1.7	1.9	.5	.7	.1	.1	.0	.0	.0	.0	.0	.0	100.0	

## FEBRUARY

PERIOD: (PRIMARY) 1895-1972  
(OVER-ALL) 1855-1972AREA 0009 MELBOURNE SE  
38.55 146.9E

TABLE 1

## PERCENT FREQUENCY OF WEATHER OCCURRENCE BY WIND DIRECTION

WIND DIR	PRECIPITATION TYPE							OTHER WEATHER PHENOMENA							NO SIG WEA
	RAIN	RAIN SHWR	DRIZ	FRZG PCPN	SNOW	OTHER FRZN PCPN	HAIL	PCPN AT DB TIME	PCPN PAST HOUR	THDR LTNG	FGD PCPN	FGD WD PCPN PAST HR	SMOKE HAZE	SPRAY BLWG DUST	
N	2.7	2.1	1.9	.0	.0	.0	.0	6.7	.6	.8	16.2	.0	2.3	.0	73.5
NE	1.6	.5	.7	.0	.0	.0	.0	2.5	.0	.9	15.7	.0	1.6	.0	79.3
E	3.9	1.3	1.7	.0	.0	.0	.0	6.9	1.3	1.3	8.5	.3	3.7	.0	78.0
SE	8.4	5.5	1.1	.0	.0	.0	.0	14.9	1.3	.6	9.0	.0	1.5	.0	72.9
S	4.6	2.6	.8	.0	.0	.0	.0	8.0	.8	.8	9.2	.0	1.0	.0	80.6
SW	2.4	4.4	.9	.0	.0	.0	.0	7.8	1.5	.7	5.4	.0	1.7	.0	83.3
W	4.3	6.5	.5	.0	.0	.0	.0	11.4	.8	1.9	2.5	.0	1.7	.0	82.6
NW	8.0	3.7	.9	.0	.0	.0	.0	12.6	1.2	3.5	5.9	.0	2.3	.0	77.3
VAR	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
CALM	.0	.0	.0	.0	.0	.0	.0	.0	.0	3.3	10.0	.0	.0	.0	86.7
TOT PCT	3.9	3.4	1.0	.0	.0	.0	.0	8.2	1.0	1.2	8.4	*	2.0	.0	79.7
TOT OBS:	2392														

TABLE 2

## PERCENT FREQUENCY OF WEATHER OCCURRENCE BY HOUR

HOUR (GMT)	PRECIPITATION TYPE							OTHER WEATHER PHENOMENA							NO SIG WEA
	RAIN	RAIN SHWR	DRIZ	FRZG PCPN	SNOW	OTHER FRZN PCPN	HAIL	PCPN AT DB TIME	PCPN PAST HOUR	THDR LTNG	FGD PCPN	FGD WD PCPN PAST HR	SMOKE HAZE	SPRAY BLWG DUST	
0000	3.7	3.0	.9	.0	.0	.0	.0	7.5	1.4	.2	7.5	.2	2.1	.0	81.3
0600	4.2	2.3	1.0	.0	.0	.0	.0	7.5	.5	1.0	10.0	.0	2.9	.0	78.8
1200	3.0	4.0	.6	.0	.0	.0	.0	8.0	1.5	2.3	9.1	.0	2.3	.0	77.2
1800	3.8	4.2	1.6	.0	.0	.0	.0	9.6	.7	1.4	9.3	.0	1.0	.0	78.2
TOT PCT	3.8	3.3	1.1	.0	.0	.0	.0	8.2	1.0	1.2	9.1	*	2.1	.0	78.9
TOT OBS:	2522														

TABLE 3

## PERCENTAGE FREQUENCY OF WIND DIRECTION BY SPEED AND BY HOUR

WIND DIR	WIND SPEED (KNOTS)							48+	TOTAL OBS	PCT FREQ	MEAN SPD	HOUR (GMT)						
	0-3	4-10	11-21	22-33	34-47	00	03					06	09	12	15	18	21	
N	1.0	2.6	1.5	.5	.0	.0	5.6	10.0	6.9	5.9	3.9	3.1	3.7	6.2	5.9	9.0		
NE	1.2	6.8	5.4	1.4	.0	.0	14.9	11.5	14.7	16.2	14.2	13.5	12.1	15.5	14.1	16.9		
E	.8	6.5	7.7	1.4	.9	*	16.7	12.8	17.0	14.4	21.0	17.3	17.0	16.1	17.7	12.5		
SE	1.0	4.6	3.8	1.0	.3	.1	10.8	12.5	9.4	11.4	9.7	12.8	11.4	10.7	9.7	11.5		
S	.9	5.6	3.4	.5	.1	.0	10.5	10.4	5.0	10.3	12.4	13.4	12.1	9.7	9.5	9.2		
SW	.9	7.6	9.2	3.2	.6	*	21.6	14.5	18.2	21.7	22.1	24.5	21.7	22.1	19.7	21.4		
W	.9	3.2	6.1	2.8	.7	*	13.8	16.2	21.6	15.0	13.6	11.2	14.0	12.6	12.8	12.5		
NW	.6	2.0	1.2	.4	.1	.0	4.3	10.6	5.5	3.5	1.6	3.1	4.6	4.4	7.2	5.3		
VAR	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0		
CALM	2.0						2.0	.0	1.9	1.5	1.3	1.1	3.3	2.7	3.3	1.3		
TOT OBS	334	1403	1385	405	73	5	3605		261	607	602	464	212	443	569	447		
TOT PCT	9.3	38.9	38.4	11.2	2.0	.1		100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0		

TABLE 3A

WIND DIR	WIND SPEED (KNOTS)					41+ TOTAL OBS	PCT FREQ	MEAN SPD	HOUR (GMT)				
	0-6	7-16	17-27	28-40	00 03				06 09	12 15	18 21		
N	2.2	2.4	.9	.2	.0		5.6	10.0	6.2	3.6	5.4	7.3	
NE	4.1	6.9	3.6	.3	.0		14.9	11.5	15.8	13.9	14.4	15.4	
E	3.1	8.9	4.2	.5	.1		16.7	12.8	15.2	19.4	16.4	15.5	
SE	3.0	4.9	2.2	.6	.2		10.8	12.5	10.8	11.0	10.9	10.6	
S	3.2	5.5	1.6	.1	*		10.5	10.4	8.7	12.8	10.5	9.4	
SW	3.4	10.1	6.1	1.7	.2		21.6	14.5	20.6	23.1	22.0	20.4	
W	2.1	5.6	3.9	1.9	.2		13.8	16.2	17.0	12.5	13.1	12.7	
NW	1.7	1.8	.6	.2	.0		4.3	10.6	4.1	2.4	4.5	6.3	
VAR	.0	.0	.0	.0	.0		.0	.0	.0	.0	.0	.0	
CALM	2.0						2.0	.0	1.6	1.2	2.9	2.5	
TOT OBS	890	1661	829	198	27	3605		12.6	888	1066	655	1016	
TOT PCT	24.7	46.1	23.0	5.5	.7		100.0		100.0	100.0	100.0	100.0	

## FEBRUARY

PERIOD: (PRIMARY) 1895-1972  
(OVER-ALL) 1855-1972

AREA 0009 MELBOURNE SE  
38.55 146.9E

TABLE 4

## PERCENTAGE FREQUENCY OF WIND SPEED BY HOUR (GMT)

HOUR	CALM	1-3	4-10	WIND SPEED (KNOTS)			48*	MEAN	PCT FREQ	TOTAL OBS
				11-21	22-33	34-47				
00003	1.6	7.9	37.4	39.5	11.6	1.7	.1	12.6	100.0	868
06009	1.2	6.1	38.6	39.6	11.8	2.6	.1	13.2	100.0	1066
12015	2.9	5.0	39.8	39.5	10.5	1.5	.0	12.5	100.0	655
18021	2.5	9.1	40.0	35.5	10.7	2.0	.3	12.2	100.0	1016
TOT	71	263	1403	1385	405	73	5	12.6		3605
PCT	2.0	7.3	38.9	38.4	11.2	2.0	.1	100.0		

TABLE 5

PCT FREQ OF TOTAL CLOUD AMOUNT (EIGHTHS)  
BY WIND DIRECTION

WIND DIR	0-2	3-4	5-7	8 & OBSCD	TOTAL OBS	MEAN CLOUD COVER
N	1.6	1.3	1.1	.3	3.4	3.4
NE	5.9	2.1	2.9	1.7	3.4	3.4
E	7.6	2.1	6.3	3.7	4.1	4.1
SE	2.1	1.0	2.4	2.8	5.0	5.0
S	3.6	1.7	2.4	2.5	4.2	4.2
SW	6.3	3.5	6.8	4.7	4.7	4.7
W	3.7	3.9	5.0	3.2	4.6	4.6
NW	1.2	.5	1.6	1.4	5.0	5.0
VAR	.0	.0	.0	.0	.0	.0
CALM	1.2	.1	.9	.8	3.6	3.6
TOT OBS	268	131	237	168	804	4.3
TOT PCT	33.3	16.3	29.5	20.9	100.0	

TABLE 6

PERCENTAGE FREQUENCY OF CEILING HEIGHTS (FT, NH >4/8)  
AND OCCURRENCE OF NH <5/8 BY WIND DIRECTION

	000	150	300	600	1000	2000	3500	5000	6500	8000+	NH <5/8 ANY HGT	TOTAL OBS
	149	299	599	999	1999	3499	4999	6499	7999			
N	.1	.0	.1	.0	.1	.2	.1	.2	.1	.1	3.2	
NE	.1	.0	.4	.4	.7	.6	.7	.0	.0	.3	9.6	
E	.3	.1	.4	1.6	2.6	1.3	.6	.1	.2	.2	12.3	
SE	.0	.1	.4	1.6	1.0	.6	.7	.0	.0	.0	3.9	
S	.1	.0	.2	1.1	1.2	1.3	.2	.1	.0	.0	6.1	
SW	.1	.0	.4	1.8	4.0	1.5	.8	.3	.4	.1	12.1	
W	.0	.0	.2	1.4	2.7	1.5	.4	.4	.1	.1	9.0	
NW	.0	.0	.4	.5	.7	.7	.0	.0	.1	.0	2.3	
VAR	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
CALM	.0	.0	.1	.6	.2	.0	.1	.0	.0	.0	1.6	
TOT OBS	5	2	20	68	109	64	29	10	8	6	483	804
TOT PCT	.6	.2	2.5	8.5	13.6	8.0	3.6	1.2	1.0	.7	60.1	100.0

TABLE 7

CUMULATIVE PCT FREQ OF SIMULTANEOUS OCCURRENCE  
OF CEILING HEIGHT (NH >4/8) AND VSBY (NM)

CEILING (FEET)	VSBY (NM)							
	>10	>5	>2	>1	>1/2	>1/4	>50YD	>0
>6500	1.3	1.6	1.7	1.7	1.7	1.7	1.7	1.7
>4000	1.9	2.8	2.9	2.9	2.9	2.9	2.9	2.9
>3500	4.6	6.1	6.6	6.6	6.6	6.6	6.6	6.6
>2000	11.2	13.6	14.4	14.4	14.4	14.4	14.4	14.4
>1000	21.7	26.2	27.9	27.9	27.9	27.9	27.9	27.9
>600	26.1	33.9	36.7	36.7	36.7	36.7	36.7	36.7
>300	26.6	35.4	39.0	39.0	39.0	39.1	39.1	39.1
>150	26.7	35.7	39.2	39.2	39.2	39.3	39.3	39.3
>0	26.8	35.8	39.5	39.5	39.5	39.8	40.0	40.0
TOTAL	220	294	324	324	324	327	328	328

TOTAL NUMBER OF OBS: 821

PCT FREQ NH &lt;5/8: 60.0

TABLE 7A

## PERCENTAGE FREQ OF LOW CLOUDS (EIGHTHS)

0	1	2	3	4	5	6	7	8	OBSCD	TOTAL OBS
13.6	16.0	13.3	9.2	6.8	7.8	8.3	9.7	14.8	.4	935

PERIOD: (PRIMARY) 1895-1972  
(OVER-ALL) 1895-1972

FEBRUARY

AREA 0009 MELBOURNE SE  
38.55 146.9E

TABLE 8

PERCENT FREQ OF WIND DIRECTION VS OCCURRENCE OR NON-OCCURRENCE OF  
PRECIPITATION WITH VARYING VALUES OF VISIBILITY

VSBY (NM)		N	NE	E	SE	S	SW	W	NW	VAR	CALM	PCT	TOTAL OBS
<1/2	PCP	.0	.0	.0	.1	*	*	.0	.0	.0	.0	.2	
	NO PCP	.2	.5	.5	.2	.2	.2	.1	*	.0	.0	1.9	
	TOT %	.2	.5	.5	.3	.2	.2	.1	*	.0	.0	2.1	
1/2<1	PCP	.0	*	.2	.3	.1	.1	.0	.0	.0	.0	.8	
	NO PCP	.6	1.5	.8	.5	.6	.8	.1	.1	.0	.0	5.2	
	TOT %	.6	1.5	1.0	.8	.8	.9	.1	.1	.0	.0	5.9	
1<2	PCP	.0	.0	*	*	*	.1	.0	.0	.0	.0	.1	
	NO PCP	.0	.1	.3	.1	.1	.2	.1	.1	.0	*	1.1	
	TOT %	.0	.1	.4	.1	.1	.3	.1	.1	.0	*	1.2	
2<5	PCP	.1	.2	.1	.2	*	.2	.2	.1	.0	.0	1.1	
	NO PCP	.1	.3	.4	.1	.0	.1	.1	*	.0	.1	1.2	
	TOT %	.1	.4	.5	.3	*	.4	.3	.1	.0	.1	2.3	
5<10	PCP	.3	.2	.6	.7	.4	1.0	1.5	.4	.0	.0	5.1	
	NO PCP	2.4	6.2	5.4	3.4	3.4	8.7	6.6	2.2	.0	.2	38.5	
	TOT %	2.7	6.3	6.1	4.1	3.9	9.7	8.0	2.6	.0	.2	43.6	
10+	PCP	*	.0	.1	.2	.2	.3	.2	.1	.0	.0	1.1	
	NO PCP	1.8	5.6	7.5	4.2	5.0	10.5	6.9	1.5	.0	.9	43.8	
	TOT %	1.8	5.6	7.6	4.3	5.2	10.8	7.1	1.6	.0	.9	44.9	
TOT OBS													2392
TOT PCT		5.5	14.5	16.1	9.9	10.1	22.3	15.8	4.5	.0	1.3	100.0	

TABLE 9

PERCENT FREQ OF WIND DIRECTION VS WIND SPEED  
WITH VARYING VALUES OF VISIBILITY

VSBY (NM)	SPD KTS	N	NE	E	SE	S	SW	W	NW	VAR	CALM	PCT	TOTAL OBS
<1/2	0-3	.1	.2	.1	.1	*	.1	.1	.0	.0	*	.7	
	4-10	.1	.3	.4	.1	.1	.1	*	.0	.0	*	1.1	
	11-21	*	.1	.1	.1	*	.0	.0	.0	.0		.3	
	22+	.0	.0	.0	.0	.0	.0	.0	.0	.0		.0	
	TOT %	.2	.5	.6	.3	.2	.2	.1	*	.0	*	2.1	
1/2<1	0-3	.1	.3	.1	.1	.1	.2	.1	*	.0	*	1.0	
	4-10	.3	.9	.3	.1	.4	.3	*	.1	.0		2.3	
	11-21	.1	.1	.4	.3	.2	.3	*	.0	.0		1.4	
	22+	.1	.1	.2	.1	.0	.1	.0	*	.0		.6	
	TOT %	.6	1.4	.9	.7	.7	.8	.1	.1	.0	*	5.4	
1<2	0-3	.0	.0	.0	.0	.0	.0	.0	.0	.0	*	*	
	4-10	.0	.1	.1	.1	.1	.1	.1	.1	.0		.6	
	11-21	.0	*	.3	.1	.0	.2	*	*	.0		.7	
	22+	.0	.1	.0	.0	.0	.0	.0	.0	.0		.1	
	TOT %	.0	.2	.4	.2	.1	.3	.1	.1	.0	*	1.4	
2<5	0-3	*	.1	.1	.1	.0	*	.0	.0	.0	.1	.4	
	4-10	.1	.3	.3	.1	*	.1	.1	.1	.0		1.1	
	11-21	.0	.1	.2	.1	.1	.3	.1	*	.0		1.0	
	22+	.0	*	.1	.1	*	.1	*	.0	.0		.4	
	TOT %	.1	.5	.7	.4	.1	.5	.3	.2	.0	.1	3.0	
5<10	0-3	.4	.3	.1	.4	.4	.4	.4	.4	.0	.2	2.9	
	4-10	1.0	2.4	2.0	1.5	1.7	2.9	1.6	1.0	.0		14.1	
	11-21	.8	2.7	2.8	1.3	1.2	3.8	2.6	.7	.0		16.1	
	22+	.3	.7	1.0	.8	.3	1.8	2.7	.3	.0		7.8	
	TOT %	2.5	6.1	5.9	3.9	3.6	8.8	7.4	2.4	.0	.2	40.9	
10+	0-3	.2	.3	.2	.4	.4	.4	.3	.2	.0	1.1	3.4	
	4-10	1.1	3.0	3.2	2.1	3.1	4.4	1.5	.9	.0		19.4	
	11-21	.5	2.2	4.2	1.7	1.7	5.0	4.1	.4	.0		19.8	
	22+	.1	.8	.4	.3	.2	1.7	1.2	.1	.0		4.8	
	TOT %	2.0	6.2	8.0	4.4	5.3	11.4	7.2	1.7	.0	1.1	47.3	
TOT OBS													2697
TOT PCT		5.4	14.8	16.5	9.9	10.0	22.1	15.2	4.5	.0	1.5	100.0	

## FEBRUARY

PERIOD: (PRIMARY) 1895-1972  
(OVER-ALL) 1855-1972

AREA 0009 MELBOURNE SE  
38.55 146.9E

TABLE 10

PERCENT FREQUENCY OF CEILING HEIGHTS (FEET, NH >4/8) AND  
OCCURRENCE OF NH <5/8 BY HOUR

HOUR (GMT)	000 149	150 299	300 599	600 999	1000 1999	2000 3499	3500 4999	5000 6499	6500 7999	8000+	TOTAL	NH <5/8 ANY HGT	TOTAL OBS
00003	.4	.4	2.3	7.7	11.9	9.6	4.2	1.1	1.9	1.1	40.6	59.4	261
06009	.4	.0	.8	8.0	12.7	7.2	3.0	.0	.4	.4	32.9	67.1	237
12015	.5	.5	2.5	6.6	13.7	6.6	2.5	1.5	.5	1.0	36.0	64.0	197
18021	1.1	.0	3.8	10.9	12.5	4.9	3.8	2.2	.5	.0	39.7	60.3	184
TOT PCT	5 .6	2 .2	20 2.3	72 9.2	111 12.6	64 7.3	30 3.4	10 1.1	8 .9	6 .7	328 37.3	551 62.7	879 100.0

TABLE 11

PERCENT FREQUENCY VSBY (NM) BY HOUR

HOUR (GMT)	<1/2	1/2<1	1<2	2<5	5<10	10+	TOTAL OBS
00003	2.1	4.3	1.4	2.7	35.5	53.9	622
06009	2.5	6.3	2.0	3.6	45.4	40.2	863
12015	2.1	5.6	.9	3.0	37.3	51.1	534
18021	2.7	6.2	1.5	2.3	44.9	42.4	809
TOT PCT	68 2.4	161 5.7	43 1.5	83 2.9	1175 41.5	1298 45.9	2828 100.0

TABLE 12

CUMULATIVE PCT FREQ OF RANGES OF VSBY (NM) AND/OR  
CEILING HGT (FEET, NH >4/8), BY HOUR

HOUR (GMT)	<150 <50YD	<600 <1	<1000 <5	1000+ AND 5+	NH <5/8 AND 5+	TOTAL OBS
00003	.4	3.2	12.7	29.9	57.4	251
06009	.5	1.4	14.8	23.9	61.2	209
12015	.5	3.6	13.0	24.5	62.5	192
18021	1.2	5.3	17.8	25.4	56.8	169
TOT PCT	5 .6	27 3.3	118 14.4	215 26.2	488 59.4	821 100.0

TABLE 13

PERCENT FREQUENCY OF RELATIVE HUMIDITY BY TEMP

TEMP F	0-29	30-39	40-49	50-59	60-69	70-79	80-89	90-100	TOTAL OBS	PCT FREQ
80/84	.0	.0	.0	.0	.2	.2	.0	.0	4	.3
75/79	.0	.0	.2	.3	.3	.7	.1	.1	20	1.6
70/74	.0	.1	.0	.4	1.2	3.4	3.3	1.6	121	9.9
65/69	.0	.0	.2	.7	3.9	7.7	12.5	10.4	432	35.4
60/64	.0	.0	.2	.9	8.3	14.6	12.3	6.8	525	43.0
55/59	.0	.0	.0	.7	1.2	4.3	2.8	.7	117	9.6
50/54	.0	.0	.0	.0	.0	.0	.1	.1	2	.2
TOTAL	0	1	6	36	185	375	379	239	1221	100.0
PCT	.0	.1	.5	2.9	15.2	30.7	31.0	19.6		

TABLE 14

PERCENT FREQUENCY OF WIND DIRECTION BY TEMP

N	NE	E	SE	S	SW	W	NW	VAR	CALM
.2	.1	.0	.0	.0	.0	.0	.1	.0	.0
.3	.1	.5	.2	.2	.1	.1	.1	.0	.0
1.7	3.1	2.4	.7	.4	.6	.3	.7	.0	.0
1.5	7.6	8.9	4.0	2.6	4.8	3.5	1.8	.0	.7
.9	2.8	6.1	4.5	5.5	11.5	8.7	1.8	.0	1.2
.1	.2	.5	.6	1.8	3.6	2.1	.5	.0	.2
.0	.0	.0	.0	.0	.1	.1	.0	.0	.0
4.7	13.9	18.5	10.1	10.5	20.7	14.7	4.9	.0	2.1

TABLE 15

MEANS, EXTREMES AND PERCENTILES OF TEMP (DEG F) BY HOUR

HOUR (GMT)	MAX	99%	95%	50%	5%	1%	MIN	MEAN	TOTAL OBS
00003	84	77	73	66	60	57	54	66.0	872
06009	84	78	74	65	59	58	54	65.6	1079
12015	77	73	70	63	58	56	55	63.5	665
18021	78	73	70	63	58	56	52	63.3	1034
TOT	84	76	72	64	59	56	52	64.7	3650

TABLE 16

PERCENT FREQUENCY OF RELATIVE HUMIDITY BY HOUR

HOUR (GMT)	0-29	30-39	60-69	70-79	80-89	90-100	MEAN	TOTAL OBS
00003	.0	3.4	20.4	26.9	34.9	14.5	78	324
06009	.0	4.9	18.5	34.0	26.9	15.8	77	368
12015	.0	3.1	9.3	34.9	31.4	21.3	80	258
18021	.0	1.9	10.3	28.5	31.1	28.2	82	312
TOT	0	43	190	391	390	248	79	1262



## FEBRUARY

PERIOD: (PRIMARY) 1895-1972  
(OVER-ALL) 1855-1972AREA 0009 MELBOURNE SE  
38.55 146.9E

TABLE 17

PCT FREQ OF AIR TEMPERATURE (DEG F) AND THE OCCURRENCE OF FOG (WITHOUT PRECIPITATION)  
VS AIR-SEA TEMPERATURE DIFFERENCE (DEG F)

AIR-SEA TMP DIF	49 52	53 56	57 60	61 64	65 68	69 72	73 76	77 80	81 84	TOT	W FOG	WD FOG
17/19	.0	.0	.0	.0	.0	*	.0	.0	*	2	.0	.1
14/16	.0	.0	.0	.0	.0	*	.0	.0	.0	1	.0	*
11/13	.0	.0	.0	.0	.1	.3	.0	.1	*	12	*	.5
9/10	.0	.0	.0	.0	.1	.2	.6	.1	.0	21	.1	.9
7/8	.0	.0	.0	.0	.2	.2	1.0	.6	*	44	.1	1.9
6	.0	.0	.0	.0	.2	1.2	.7	*	*	47	.3	1.8
5	.0	.0	.0	.0	.7	1.1	.3	.1	.0	49	.1	2.1
4	.0	.0	.0	.1	1.6	1.2	.6	*	.0	78	.5	3.1
3	.0	.0	.0	.5	2.8	1.8	.3	*	.0	117	.8	4.6
2	.0	.1	*	1.4	5.9	1.4	.2	*	.0	198	1.3	7.8
1	.0	.0	.1	3.2	5.9	.9	.1	*	.0	225	1.7	8.7
0	.0	.1	1.1	7.9	5.3	.8	.2	.0	.0	333	1.7	13.7
-1	.0	.0	1.4	6.4	2.9	.4	*	.0	.0	241	1.0	10.1
-2	.0	.0	2.1	7.7	1.6	.2	.0	.0	.0	251	.9	10.7
-3	.0	*	2.9	4.5	1.0	.1	.0	.0	.0	185	.5	8.0
-4	.0	.2	3.4	3.7	.5	*	.0	.0	.0	168	.1	7.6
-5	.0	.2	2.0	1.7	.5	.2	.0	.0	.0	99	.1	4.5
-6	.0	.0	1.3	.6	.1	.0	.0	.0	.0	44	.1	1.9
-7/-8	.0	.2	.8	.6	.2	.0	.0	.0	.0	37	*	1.7
-9/-10	*	*	.2	*	.0	.0	.0	.0	.0	8	.0	.4
-11/-13	.0	*	.3	*	.0	.0	.0	.0	.0	9	.0	.4
TOTAL	1		339		638		78		3	2169	204	1965
PCT	*	.9	15.6	38.7	29.4	11.0	3.6	.6	.1	100.0	9.4	90.6

PERIOD: (OVER-ALL) 1963-1972

TABLE 18

PCT FREQ OF WIND SPEED (KTS) AND DIRECTION VERSUS SEA HEIGHTS (FT)

HGT	1-3	4-10	11-21	22-33	34-47	48+	PCT	1-3	4-10	11-21	22-33	34-47	48+	PCT
<1	.5	.6	.0	.0	.0	.0	1.0	.2	1.4	.0	.0	.0	.0	1.6
1-2	.0	1.6	.0	.0	.0	.0	1.6	.4	3.7	.6	.0	.0	.0	4.7
3-4	.0	.6	.5	.0	.0	.0	1.0	.0	1.1	2.3	.4	.0	.0	3.7
5-6	.0	.0	.2	.0	.0	.0	.2	.0	.2	1.1	.2	.0	.0	1.6
7	.0	.0	.0	.2	.0	.0	.2	.0	.0	.6	.5	.0	.0	1.1
8-9	.0	.0	.2	.0	.0	.0	.2	.0	.0	.2	.7	.0	.0	.9
10-11	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
12	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.2	.0	.0	.4
13-16	.0	.0	.0	.2	.0	.0	.2	.0	.0	.0	.0	.0	.0	.0
17-19	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
20-22	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
23-25	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
26-32	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
33-40	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
41-48	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
49-60	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
61-70	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
71-86	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
87+	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
TOT PCT	.5	2.8	.8	.4	.0	.0	4.4	.6	6.6	4.8	2.0	.0	.0	14.0

HGT	1-3	4-10	11-21	22-33	34-47	48+	PCT	1-3	4-10	11-21	22-33	34-47	48+	PCT
<1	.0	.9	.0	.0	.0	.0	.9	.7	.6	.0	.0	.0	.0	1.3
1-2	.0	3.2	.7	.0	.0	.0	3.9	.2	1.0	.8	.0	.0	.0	2.1
3-4	.2	3.1	4.5	.2	.0	.0	8.0	.0	.9	1.2	.0	.0	.0	2.1
5-6	.0	1.4	4.0	.3	.4	.0	6.0	.0	.1	1.2	.4	.0	.0	1.7
7	.0	.0	.9	.2	.0	.0	1.0	.0	.0	.3	.5	.0	.0	.8
8-9	.0	.0	.4	.1	.0	.0	.5	.0	.0	.0	.2	.0	.0	.2
10-11	.0	.0	.0	.2	.0	.0	.2	.0	.0	.0	*	.0	.0	.0
12	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
13-16	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.2	.0	.0	.2
17-19	.0	.0	.0	.2	.0	.0	.2	.0	.0	.0	.2	.2	.0	.4
20-22	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
23-25	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
26-32	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
33-40	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
41-48	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
49-60	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
61-70	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
71-86	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
87+	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
TOT PCT	.2	8.5	10.4	1.2	.4	.0	20.7	.9	2.6	3.5	1.5	.2	.0	8.7

PERIOD: (OVER-ALL) 1963-1972

FEBRUARY

AREA 0009 MELBOURNE SE  
38.55 146.9E

TABLE 18 (CONT)

PCT FREQ OF WIND SPEED (KTS) AND DIRECTION VERSUS SEA HEIGHTS (FT)

HGT	1-3	4-10	11-21	22-33	34-47	48+	PCT	1-3	4-10	11-21	22-33	34-47	48+	PCT
<1	.4	1.4	.0	.0	.0	.0	1.8	.0	.8	.0	.0	.0	.0	.9
1-2	.3	2.4	.5	.0	.0	.0	3.2	.0	2.5	1.5	.0	.0	.0	4.0
3-4	.0	1.5	1.5	.5	.0	.0	3.5	.2	1.6	3.3	.9	.0	.0	6.0
5-6	.0	.3	1.1	.1	.0	.0	1.5	.0	.6	3.1	.8	.0	.0	4.5
7	.0	.0	.5	.2	.2	.0	.8	.0	.0	1.5	.2	.0	.0	1.8
8-9	.0	.0	.3	.0	.0	.0	.3	.0	.0	.4	.0	.2	.0	.6
10-11	.0	.0	.0	.1	.0	.0	.1	.0	.0	.2	.0	.0	.0	.4
12	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.6	.0	.0	.6
13-16	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.4	.0	.0	.4
17-19	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
20-22	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
23-25	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
26-32	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
33-40	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
41-48	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
49-60	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
61-70	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
71-86	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
87+	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
TOT PCT	.7	5.5	3.9	.9	.2	.0	11.2	.2	5.5	10.0	3.2	.2	.0	19.0

HGT	1-3	4-10	11-21	22-33	34-47	48+	PCT	1-3	4-10	11-21	22-33	34-47	48+	PCT	TOTAL PCT
<1	.1	.2	.1	.0	.0	.0	.5	.5	.4	.0	.0	.0	.0	.8	
1-2	.5	1.3	.9	.0	.0	.0	2.7	.2	1.4	.4	.0	.0	.0	1.9	
3-4	.0	.9	2.8	.2	.0	.0	3.9	.0	.6	.3	.0	.0	.0	.9	
5-6	.0	.0	2.4	.2	.0	.0	2.6	.0	.0	.4	.0	.0	.0	.4	
7	.0	.0	1.0	.5	.1	.0	1.6	.0	.0	.4	.0	.0	.0	.4	
8-9	.0	.0	.2	.7	.0	.0	.9	.0	.0	.0	.0	.0	.0	.0	
10-11	.0	.0	.0	.3	.0	.0	.3	.0	.0	.0	.0	.0	.0	.0	
12	.0	.0	.0	.1	.0	.0	.1	.0	.0	.0	.0	.0	.0	.0	
13-16	.0	.0	.0	.1	.0	.0	.1	.0	.0	.0	.2	.0	.0	.2	
17-19	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
20-22	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
23-25	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
26-32	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
33-40	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
41-48	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
49-60	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
61-70	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
71-86	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
87+	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
TOT PCT	.7	2.4	7.4	2.1	.1	.0	12.7	.6	2.4	1.4	.2	.0	.0	4.7	95.5

WIND SPEED (KTS) VS SEA HEIGHT (FT)

HGT	0-3	4-10	11-21	22-33	34-47	48+	PCT	TOT OBS
<1	8.2	6.2	.2	.0	.0	.0	14.6	
1-2	1.6	16.7	5.3	.0	.0	.0	23.7	
3-4	.4	10.1	16.0	2.1	.0	.0	28.6	
5-6	.0	2.5	13.3	2.0	.4	.0	18.1	
7	.0	.0	5.0	2.3	.4	.0	7.7	
8-9	.0	.0	1.6	1.8	.2	.0	3.6	
10-11	.0	.0	.2	.9	.0	.0	1.1	
12	.0	.2	.0	.9	.0	.0	1.1	
13-16	.0	.0	.0	1.1	.0	.0	1.1	
17-19	.0	.0	.0	.4	.2	.0	.5	
20-22	.0	.0	.0	.0	.0	.0	.0	
23-25	.0	.0	.0	.0	.0	.0	.0	
26-32	.0	.0	.0	.0	.0	.0	.0	
33-40	.0	.0	.0	.0	.0	.0	.0	
41-48	.0	.0	.0	.0	.0	.0	.0	
49-60	.0	.0	.0	.0	.0	.0	.0	
61-70	.0	.0	.0	.0	.0	.0	.0	
71-86	.0	.0	.0	.0	.0	.0	.0	
87+	.0	.0	.0	.0	.0	.0	.0	
TOT PCT	10.1	35.8	41.6	11.4	1.1	.0	100.0	562

PERIOD: (OVER-ALL) 1949-1972

TABLE 19

PERCENT FREQUENCY OF WAVE HEIGHT (FT) VS WAVE PERIOD (SECONDS)

PERIOD (SEC)	<1	1-2	3-4	5-6	7	8-9	10-11	12	13-16	17-19	20-22	23-25	26-32	33-40	41-48	49-60	61-70	71-86	87+	TOTAL	MEAN HGT
<6	1.5	8.4	13.3	9.7	2.3	1.0	.0	.1	.1	.1	.0	.0	.0	.0	.0	.0	.0	.0	.0	267	4
6-7	.0	1.0	8.0	10.2	9.6	2.6	1.0	.5	.3	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	241	6
8-9	.0	.3	1.9	3.0	4.7	2.1	1.0	1.0	.3	.3	.1	.0	.1	.0	.0	.0	.0	.0	.0	107	7
10-11	.0	.0	.8	1.5	1.4	.8	.4	.3	.3	.1	.1	.1	.0	.0	.0	.0	.0	.0	.0	43	8
12-13	.0	.0	1.4	.3	.1	.0	.1	.3	.0	.3	.0	.0	.0	.0	.0	.0	.0	.0	.0	18	6
>13	.0	.0	.0	.1	.0	.1	.1	.1	.0	.1	.0	.0	.0	.0	.0	.0	.0	.0	.0	5	10
INDET	2.7	1.1	1.5	.8	.1	.1	.0	.1	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	48	2
TOTAL	31	78	196	187	133	49	19	18	7	2	1	1	0	0	0	0	0	0	0	729	5
PCT	4.3	10.7	26.9	25.7	18.2	6.7	2.6	2.5	1.0	1.0	.3	.1	.1	.0	.0	.0	.0	.0	.0	100.0	

## MARCH

PERIOD: (PRIMARY) 1902-1972  
(OVER-ALL) 1856-1972

TABLE 1

AREA 0009 MELBOURNE SE  
38.55 146.8E

## PERCENT FREQUENCY OF WEATHER OCCURRENCE BY WIND DIRECTION

PRECIPITATION TYPE										OTHER WEATHER PHENOMENA						
WIND DIR	RAIN	RAIN SHWR	DRZL	FRZG PCPN	SNOW	OTHER FRZN PCPN	HAIL	PCPN AT DB TIME	PCPN PAST HOUR	THDR LTNG	FOG WD PCPN	FOG WD PCPN PAST HR	SMOKE HAZE	BLWG DUST BLWG SNOW	SPRAY	NO SIG WEA
N	1.2	2.1	.0	.0	.0	.0	.0	3.2	1.0	1.8	5.0	.6	5.6	.0	.0	83.4
NE	1.6	2.0	1.9	.0	.0	.0	.0	5.5	.9	3.0	3.8	.0	5.6	.0	.0	81.7
E	1.6	1.8	.8	.0	.0	.0	.0	4.3	.7	2.0	6.0	.3	2.6	.0	.0	84.4
SE	3.7	1.4	.8	.0	.0	.0	.2	6.1	1.0	.2	1.7	.0	.9	.0	.0	90.1
S	2.6	5.0	.9	.0	.0	.0	1.2	9.7	.7	2.0	1.8	.0	1.8	.0	.0	84.0
SW	3.9	4.6	1.0	.0	.0	.0	.3	9.6	1.2	1.1	1.7	.0	.9	.0	.0	86.0
W	3.8	6.8	.7	.0	.0	.0	.0	11.3	2.0	1.4	2.4	.0	.8	.0	.0	83.1
NW	.9	9.9	2.4	.0	.0	.0	.0	13.3	2.1	.0	4.3	.6	1.8	.0	.0	77.9
VAR	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
CALM	.0	.0	.0	.0	.0	.0	.0	.0	.0	2.3	7.0	.0	14.0	.0	.0	76.7
TOT	2.7	4.2	1.0	.0	.0	.0	.2	8.1	1.2	1.5	3.1	.1	2.3	.0	.0	84.0
PCT OBS:	2569															

TABLE 2

## PERCENT FREQUENCY OF WEATHER OCCURRENCE BY HOUR

PRECIPITATION TYPE											OTHER WEATHER PHENOMENA						
HOURL (GMT)	RAIN	RAIN SHWR	DRZL	FRZG PCPN	SNOW	OTHER FRZN PCPN	HAIL	PCPN AT DB TIME	PCPN PAST HOUR	THDR LTNG	FOG WD PCPN	FOG WD PCPN PAST HR	SMOKE HAZE	BLWG DUST	SPRAY BLWG SNOW	NIG SIG WEA	
00603	2.1	4.0	1.6	.0	.0	.0	.3	8.0	1.6	.2	3.4	.3	3.0	.0	.0	83.5	
06009	2.6	4.4	.5	.0	.0	.0	.4	7.9	.6	1.4	3.6	.1	2.9	.0	.0	84.1	
12015	2.9	2.7	1.0	.0	.0	.0	.0	6.3	2.2	3.1	1.8	.0	1.2	.0	.0	86.1	
18021	3.0	4.8	1.0	.0	.0	.0	.1	9.0	.9	1.4	3.7	.0	2.1	.0	.0	83.1	
TOT PCT	2.7	4.1	1.0	.0	.0	.0	.2	7.9	1.2	1.4	3.2	.1	2.4	.0	.0	84.1	
TOT OBS:	2696																

TABLE 3

## PERCENTAGE FREQUENCY OF WIND DIRECTION BY SPEED AND BY HOUR

WIND DIR	WIND SPEED (KNOTS)							TOTAL OBS	PCT FREQ	MEAN SPD	HOUR (GMT)							
	0-3	4-10	11-21	22-33	34-47	48+					00	03	06	09	12	15	18	21
N	1.0	4.0	1.4	.3	.0	.0		6.7	8.7		6.9	8.5	3.8	4.0	3.5	6.6	7.2	11.9
NE	1.1	6.5	4.2	.6	.0	.0		12.4	10.3		12.8	12.3	11.4	11.7	14.3	12.8	13.8	11.8
E	.8	6.3	4.4	.9	.1	.0		12.6	11.2		6.6	12.9	11.0	14.6	12.4	14.2	14.0	12.4
SE	.9	4.9	2.9	.5	.1	.0		9.3	10.2		8.1	9.0	11.7	9.9	12.9	9.7	6.5	8.3
S	1.2	5.7	3.5	1.2	.1	.0		11.7	11.3		6.7	10.7	15.7	16.4	7.5	11.6	10.4	9.5
SW	1.1	7.5	4.0	4.3	.7	.2		22.6	15.1		23.8	20.4	24.1	24.7	27.9	21.5	21.5	20.9
W	.8	4.9	6.0	4.0	1.0	.1		16.7	17.0		26.0	17.1	16.2	13.0	18.4	16.8	16.4	15.2
NW	.3	2.9	1.4	1.0	.2	.0		5.7	13.9		6.8	6.7	4.1	3.8	1.7	4.4	8.3	8.2
VAR	.0	.0	.0	.0	.0	.0		.0	.0		.0	.0	.0	.0	.0	.0	.0	.0
CALM	2.2							2.2	.0		2.5	2.3	2.3	2.1	1.3	2.5	2.6	2.0
TOT OBS	371	1690	1293	501	90	13	3958		12.6		285	651	664	517	235	489	627	489
TOT PCT	9.4	42.7	32.7	12.7	2.3	.3		100.0			100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0

TABLE 3A

WIND DIR	0-6	WIND SPEED (KNOTS)				41+	TOTAL OBS	PCT FREQ	MEAN SPD	HOUR (GMT)			
		7-16	17-27	28-40	00 03					06 09	12 15	18 21	
N	2.9	3.1	.6	.1	.0		6.7	8.7	8.0	3.9	5.6	9.3	
NE	3.4	7.0	1.9	.1	.0		12.4	10.3	12.5	11.5	13.3	12.6	
E	3.6	6.3	2.2	.4	.1		12.6	11.2	11.0	12.5	13.6	13.3	
SE	3.1	4.8	1.2	.2	.1		9.3	10.2	8.7	10.9	10.8	7.1	
S	3.8	5.0	2.5	.4	.1		11.7	11.3	9.5	16.0	10.3	10.0	
SW	3.8	9.5	7.0	1.8	.4		22.6	15.1	21.4	24.3	23.6	21.2	
W	2.9	5.8	5.1	2.3	.7		16.7	17.0	19.8	14.8	17.3	15.9	
NW	1.6	2.2	1.2	.5	.2		5.7	13.9	6.7	3.9	3.6	8.3	
VAR	.0	.0	.0	.0	.0		.0	.0	.0	.0	.0	.0	
CALM	2.2						2.2	.0	2.4	2.2	2.1	2.3	
TOT OBS	1085	1733	858	224	58	3958		12.6	936	1181	725	1116	
TOT PCT	27.4	43.8	21.7	5.7	1.5		100.0		100.0	100.0	100.0	100.0	



PERIOD: (PRIMARY) 1902-1972  
(OVER-ALL) 1856-1972

MARCH

AREA 0009 MELBOURNE SE  
38.55 146.8E

TABLE 4

PERCENTAGE FREQUENCY OF WIND SPEED BY HOUR (GMT)

HOUR	CALM	1-3	4-10	11-21	22-33	34-47	48+	MEAN	PCT FREQ	TOTAL OBS
00&03	2.4	7.8	42.5	31.9	12.3	2.6	.5	12.6	100.0	936
06&09	2.2	6.8	39.7	35.2	12.5	3.0	.6	13.2	100.0	1181
12&15	2.1	6.5	43.3	33.0	13.8	1.2	.1	12.5	100.0	725
18&21	2.3	7.3	45.6	30.4	12.4	2.0	.0	12.0	100.0	1116
TOT	89	282	1690	1293	501	90	13	12.6		3958
PCT	2.2	7.1	42.7	32.7	12.7	2.3	.3		100.0	

TABLE 5

PCT FREQ OF TOTAL CLOUD AMOUNT (EIGHTHS)  
BY WIND DIRECTION

WIND DIR	0-2	3-4	5-7	8 & OBSCD	TOTAL OBS	MEAN CLOUD COVER
N	2.6	.9	1.4	.6	3.4	3.4
NE	7.0	1.4	3.1	2.0	3.2	3.2
E	5.7	1.1	3.0	1.5	3.4	3.4
SE	3.0	1.4	2.5	2.6	4.5	4.5
S	1.9	2.1	3.1	1.7	4.7	4.7
SW	4.7	5.0	9.5	5.2	5.0	5.0
W	4.3	2.8	8.6	3.8	5.0	5.0
NW	1.5	.8	1.6	1.3	4.8	4.8
VAR	.0	.0	.0	.3	.0	.0
CALM	1.5	.2	.1	.3	2.4	2.4
TOT OBS	297	145	303	178	920	4.4
TOT PCT	32.3	15.8	32.9	19.0	100.0	

TABLE 6

PERCENTAGE FREQUENCY OF CEILING HEIGHTS (FT.) NH >4/8  
AND OCCURRENCE OF NH <5/8 BY WIND DIRECTION

	000 149	150 299	300 599	600 999	1000 1999	2000 3499	3500 4999	5000 6499	6500 7999	8000+	NH <5/8 ANY HGT	TOTAL OBS
N	.0	.0	.0	.1	.2	.4	.2	.0	.3	.2	4.1	
NE	.1	.0	.0	.1	2.1	.7	.2	.1	.1	.2	9.8	
E	.1	.0	.1	.3	.7	2.1	.3	.1	.1	.0	7.6	
SE	.1	.0	.0	.7	2.0	1.1	.1	.1	.0	.1	5.4	
S	.1	.0	.0	.8	1.4	.6	.3	.2	.1	.0	5.4	
SW	.0	.0	.1	1.6	5.3	3.3	1.3	.5	.0	.2	12.1	
W	.0	.0	.2	1.7	4.6	2.0	1.1	.2	.1	.0	9.8	
NW	.0	.0	.1	.2	.7	.5	.1	.4	.1	.3	2.9	
VAR	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
CALM	.0	.0	.1	.2	.0	.0	.0	.0	.0	.1	1.7	
TOT OBS	3	0	3	52	158	97	33	15	7	11	541	920
TOT PCT	.3	.0	.3	5.7	17.2	10.5	3.6	1.6	.8	1.2	58.8	100.0

TABLE 7

CUMULATIVE PCT FREQ OF SIMULTANEOUS OCCURRENCE  
OF CEILING HEIGHT (NH >4/8) AND VSBY (NM)

	CEILING (FEET)	OR >10	OR >5	OR >2	VSBY (NM) OR >1	OR >1/2	OR >1/4	OR >50YD	OR >0
OR >5000	1.9	2.4	2.4	2.4	2.4	2.4	2.4	2.4	2.4
OR >4000	3.1	3.9	3.9	3.9	3.9	3.9	3.9	3.9	3.9
OR >3500	6.1	7.5	7.6	7.6	7.6	7.6	7.6	7.6	7.6
OR >3000	14.3	17.6	17.8	17.8	17.8	17.8	17.8	17.8	17.8
OR >2500	27.6	34.0	34.8	34.8	34.8	34.8	34.8	34.8	34.8
OR >2000	31.2	39.2	40.2	40.2	40.2	40.2	40.2	40.2	40.2
OR >1500	31.3	39.3	40.5	40.6	40.6	40.6	40.6	40.6	40.6
OR >1000	31.3	39.3	40.5	40.6	40.6	40.6	40.6	40.6	40.6
OR >500	31.4	39.4	40.6	40.7	40.8	40.8	40.8	40.8	40.8
OR >0	31.4	39.4	40.6	40.7	40.8	40.8	40.8	40.8	40.8
TOTAL	303	380	391	392	393	393	394	394	394

TOTAL NUMBER OF OBS: 964

PCT FREQ NH <5/8: 59.1

TABLE 7A

PERCENTAGE FREQ OF LOW CLOUDS (EIGHTHS)

	0	1	2	3	4	5	6	7	8 OBSCD	TOTAL OBS
	15.4	16.7	10.4	8.6	6.5	7.9	10.8	10.5	13.2	1085

PERIOD: (PRIMARY) 1902-1972  
(OVER-ALL) 1856-1972

MARCH

AREA 0009 MELBOURNE SE  
38.55 146.8E

TABLE 8

PERCENT FREQ OF WIND DIRECTION VS OCCURRENCE OR NON-OCCURRENCE OF  
PRECIPITATION WITH VARYING VALUES OF VISIBILITY

VISBY (NM)		N	NE	E	SE	S	SW	W	NW	VAR	CALM	PCT	TOTAL OBS
<1/2	PCP	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
	NO PCP	.1	.1	*	*	.0	.0	.1	*	.0	.0	.4	
	TOT %	.1	.1	*	*	.0	.0	.1	*	.0	.0	.4	
1/2<1	PCP	*	.1	*	.1	.0	*	.1	.2	.0	.0	.6	
	NO PCP	.1	.3	.3	.1	.2	.2	.5	.3	.0	.0	2.1	
	TOT %	.2	.4	.4	.1	.2	.2	.6	.5	.0	.0	2.7	
1<2	PCP	.0	.0	.0	*	*	*	*	.0	.0	.0	.2	
	NO PCP	.1	.2	.2	*	.1	.2	.1	.0	.0	.1	.9	
	TOT %	.1	.2	.2	.1	.1	.2	.1	.0	.0	.1	1.1	
2<5	PCP	.0	*	*	.1	.2	.2	.1	*	.0	.0	.6	
	NO PCP	.1	.4	.1	.0	*	.1	.1	.1	.0	.1	1.0	
	TOT %	.1	.4	.1	.1	.2	.3	.2	.2	.0	.1	1.6	
5<10	PCP	.2	.4	.3	.2	.7	1.3	1.5	.5	.0	.0	5.1	
	NO PCP	3.1	4.8	6.0	3.6	4.4	8.5	7.7	2.7	.0	.4	41.3	
	TOT %	3.3	5.2	6.3	3.8	5.1	9.9	9.2	3.1	.0	.4	46.4	
10+	PCP	.0	.2	.1	.1	.2	.5	.5	.2	.0	.0	1.7	
	NO PCP	2.8	5.9	4.7	4.3	5.3	11.2	8.5	2.4	.0	1.1	46.2	
	TOT %	2.8	6.1	4.8	4.4	5.5	11.7	9.0	2.6	.0	1.1	47.9	
TOT OBS													2569
TOT PCT													
		6.6	12.4	11.8	8.5	11.1	22.3	19.2	6.4	.0	1.7	100.0	

TABLE 9

PERCENT FREQ OF WIND DIRECTION VS WIND SPEED  
WITH VARYING VALUES OF VISIBILITY

VISBY (NM)	SPD KTS	N	NE	E	SE	S	SW	W	NW	VAR	CALM	PCT	TOTAL OBS
<1/2	0-3	.0	*	.0	.0	.0	.0	.0	.0	.0	.0	*	
	4-10	.1	*	.1	*	.0	.0	*	*	.0		.3	
	11-21	.0	.0	.0	*	*	.0	*	.0	.0		.1	
	22+	.0	.0	.0	.0	.0	.0	.0	.0	.0		.0	
	TOT %	.1	.1	.1	.1	*	.0	.1	*	.0	.0	.4	
1/2<1	0-3	.0	.0	.0	.0	.1	.0	.0	.0	.0	.0	.1	
	4-10	.1	.2	.1	.1	.1	.1	.1	.2	.0		.9	
	11-21	*	.2	.1	.0	*	*	.0	.1	.0		.6	
	22+	*	.0	.1	.1	*	.1	.5	.2	.0		.8	
	TOT %	.2	.4	.3	.1	.2	.2	.6	.4	.0	.0	2.4	
1<2	0-3	.1	.1	.0	.0	.0	.0	*	.0	.0	.1	.2	
	4-10	.0	.1	.1	.0	*	.2	*	.0	.0		.4	
	11-21	.0	*	*	*	*	.1	*	.0	.0		.3	
	22+	.0	.0	*	.1	*	*	*	.0	.0		.2	
	TOT %	.1	.2	.1	.1	.1	.3	.1	.0	.0	.1	1.1	
2<5	0-3	*	*	.0	*	*	*	*	.0	.0	.1	.2	
	4-10	*	.2	.1	*	.0	.1	.1	*	.0		.5	
	11-21	*	.1	*	.1	.1	.3	*	.0	.0		.7	
	22+	*	.1	.0	.0	.1	.1	.1	.2	.0		.5	
	TOT %	.1	.4	.2	.1	.2	.5	.2	.2	.0	.1	2.0	
5<10	0-3	.4	.6	.4	.3	.5	.4	.4	.1	.0	.5	3.7	
	4-10	2.0	3.4	2.7	2.1	2.1	3.4	2.7	1.4	.0		18.7	
	11-21	.5	1.8	2.3	1.0	1.4	3.2	2.2	.5	.0		13.0	
	22+	.2	.2	.3	.1	.8	2.2	2.9	.8	.0		7.5	
	TOT %	3.0	4.9	5.7	3.6	4.8	9.3	8.2	2.8	.0	.5	42.8	
10+	0-3	.3	.4	.3	.7	.7	.8	.3	.2	.0	1.2	4.9	
	4-10	1.8	3.6	2.9	2.4	3.0	4.1	2.6	1.5	.0		21.9	
	11-21	.9	2.3	1.8	1.6	1.9	5.4	3.7	.7	.0		18.4	
	22+	.2	.2	.2	.2	.3	2.5	2.2	.2	.0		6.1	
	TOT %	3.2	6.5	5.2	4.8	5.9	12.9	8.9	2.6	.0	1.2	51.3	
TOT OBS													2946
TOT PCT													
		6.7	12.5	11.5	8.8	11.3	23.1	18.1	6.0	.0	1.9	100.0	

## MARCH

PERIOD: (PRIMARY) 1902-1972  
(OVER-ALL) 1856-1972AREA 0009 MELBOURNE SE  
38.55 146.8E

TABLE 10

PERCENT FREQUENCY OF CEILING HEIGHTS (FEET, NH >4/8) AND  
OCCURRENCE OF NH <5/8 BY HOUR

HOURL (GMT)	000 149	150 299	300 599	600 999	1000 1999	2000 3499	3500 4999	5000 6499	6500 7999	8000+	TOTAL	NH <5/8 ANY HGT	TOTAL OBS
00003	.0	.0	.3	5.4	17.2	11.1	2.7	1.3	.7	1.7	40.4	59.6	297
06009	.8	.0	.8	5.3	12.8	9.1	2.6	1.1	1.1	.8	34.3	65.7	265
12015	.0	.0	.0	6.1	17.9	9.2	3.5	.9	.9	1.3	39.7	60.3	229
18021	.4	.0	.0	4.0	16.3	9.3	5.3	2.6	.4	2.2	40.5	59.5	227
TOT	3	0	3	53	163	99	35	15	8	15	394	624	1018
PCT	.3	.0	.3	5.2	16.0	9.7	3.4	1.5	.8	1.5	38.7	61.3	100.0

TABLE 11

PERCENT FREQUENCY VSBY (NM) BY HOUR

HOURL (GMT)	<1/2	1/2<1	1<2	2<5	5<10	10+	TOTAL OBS
00003	.1	2.5	1.0	1.9	37.1	57.4	688
06009	.4	2.7	1.3	2.7	47.1	45.8	924
12015	.0	1.0	.3	1.2	39.3	58.1	583
18021	1.0	3.1	1.5	1.6	46.6	46.2	878
TOT	14	75	34	59	1328	1563	3073
PCT	.5	2.4	1.1	1.9	43.2	50.9	100.0

TABLE 12

CUMULATIVE PCT FREQ OF RANGES OF VSBY (NM) AND/OR  
CEILING HGT (FEET, NH >4/8), BY HOUR

HOURL (GMT)	<150 <50YD	<600 <1	<1000 <5	1000+ AND 5+	NH <5/8 AND 5+	TOTAL OBS
00003	.0	.4	6.7	35.6	57.7	284
06009	.8	1.6	9.3	28.6	62.1	248
12015	.0	.5	8.6	33.6	57.7	220
18021	.5	.5	4.7	38.7	56.6	212
TOT	3	7	71	328	565	964
PCT	.3	.7	7.4	34.0	58.6	100.0

TABLE 13

PERCENT FREQUENCY OF RELATIVE HUMIDITY BY TEMP

TEMP F	0-29	30-39	40-49	50-59	60-69	70-79	80-89	90-100	TOTAL OBS	PCT FREQ
80/84	.0	.1	.1	.0	.0	.1	.1	.0	4	.3
75/79	.0	.1	.1	.3	.3	.4	.0	.1	16	1.2
70/74	.0	.0	.2	.2	1.1	2.7	1.5	.8	88	6.5
65/69	.0	.0	.0	1.7	3.3	7.9	10.5	5.7	390	29.0
60/64	.0	.0	.6	2.3	10.9	15.8	11.8	4.9	623	46.3
55/59	.0	.0	.0	1.2	3.9	5.5	3.8	1.3	211	15.7
50/54	.0	.0	.0	.0	.2	.2	.3	.1	12	.9
45/49	.0	.0	.0	.0	.0	.0	.0	.1	1	.1
TOTAL	0	2	13	77	265	437	376	175	1345	100.0
PCT	.0	.1	1.0	5.7	19.7	32.5	28.0	13.0		

TABLE 14

PERCENT FREQUENCY OF WIND DIRECTION BY TEMP

	N	NE	E	SE	S	SW	W	NW	VAR	CALM
.1	.1	.1	.0	.0	.0	.0	.0	.0	.0	.0
.4	.3	.0	.0	.1	.0	.0	.1	.0	.0	.2
1.5	1.9	.7	.3	.5	.8	.5	.4	.0	.1	.1
2.9	7.0	4.0	2.6	1.9	4.0	3.6	1.8	.0	.7	.1
1.5	3.9	4.9	4.6	5.6	12.8	10.0	2.2	.0	.7	.1
.3	.4	.2	1.3	3.0	6.2	3.8	.4	.0	.1	.0
.0	.0	.0	.0	.1	.2	.3	.2	.0	.0	.0
.0	.0	.0	.0	.0	.0	.1	.0	.0	.0	.0
0.6	13.6	9.9	8.8	11.2	24.1	18.3	5.3	.0	2.2	

TABLE 15

MEANS, EXTREMES AND PERCENTILES OF TEMP (DEG F) BY HOUR

HOURL (GMT)	MAX	99%	95%	50%	5%	1%	MIN	MEAN	TOTAL OBS
00003	80	76	72	64	58	55	51	64.5	937
06009	80	77	72	64	58	55	52	64.2	1187
12015	79	72	69	62	56	53	51	62.2	732
18021	81	72	68	62	55	51	48	61.8	1148
TOT	81	75	71	63	57	53	48	63.2	4004

TABLE 16

PERCENT FREQUENCY OF RELATIVE HUMIDITY BY HOUR

HOURL (GMT)	0-29	30-39	60-69	70-79	80-89	90-100	MEAN	TOTAL OBS
00003	.0	9.8	21.4	32.8	24.9	11.1	75	369
06009	.0	7.1	23.5	32.3	26.5	10.6	75	396
12015	.0	5.9	15.4	33.2	28.7	16.8	78	286
18021	.0	4.7	16.3	31.8	30.9	16.3	79	362
TOT	0	98	275	459	391	190	77	1413

## MARCH

PERIOD: (PRIMARY) 1902-1972  
(OVER-ALL) 1856-1972AREA 0009 MELBOURNE SE  
38.55 146.8E

TABLE 17

PCT FREQ OF AIR TEMPERATURE (DEG F) AND THE OCCURRENCE OF FOG (WITHOUT PRECIPITATION)  
VS AIR-SEA TEMPERATURE DIFFERENCE (DEG F)

AIR-SEA TMP DIF	45 48	49 52	53 56	57 60	61 64	65 68	69 72	73 76	77 80	TOT	W FOG	WD FOG
14/16	.0	.0	.0	.0	.0	*	.0	.0	*	2	.0	.1
11/13	.0	.0	.0	.0	.0	.0	*	.2	.2	10	.0	.4
9/10	.0	.0	.0	.0	*	.0	.3	.3	*	16	*	.6
7/8	.0	.0	.0	.0	.2	.2	.4	.4	.1	30	.0	1.3
6	.0	.0	.0	.0	.1	.1	.7	.3	*	29	.1	1.2
5	.0	.0	.0	.1	.1	.9	.9	*	*	48	.2	1.9
4	.0	.0	*	.0	.8	1.7	1.2	.1	.0	90	.1	3.7
3	.0	.0	.0	*	.3	2.4	.7	.2	*	87	.2	3.5
2	.0	.0	.0	.3	2.3	3.6	1.2	*	.0	174	.5	7.0
1	.0	.0	.0	.3	2.9	4.1	.9	*	.0	196	.5	7.9
0	.0	.0	.1	.8	7.4	4.0	.3	*	.0	296	.6	12.1
-1	.0	.0	.1	1.7	8.3	2.9	.4	.0	.0	313	.4	13.0
-2	.0	.0	.2	3.4	7.4	1.6	.1	.0	.0	298	.3	12.4
-3	.0	*	.3	5.0	4.0	.9	*	.0	.0	240	.2	10.1
-4	.0	.0	.3	4.3	2.6	.7	.0	.0	.0	186	.3	7.6
-5	.0	*	.6	3.1	1.2	.3	.0	.0	.0	125	*	5.3
-6	.0	.0	.6	2.1	.5	.0	.0	.0	.0	74	.0	3.2
-7/-8	.0	.1	1.3	1.8	.3	.1	*	.0	.0	85	.0	3.6
-9/-10	.0	.1	.6	.2	.2	.0	.0	.0	.0	28	.1	1.1
-11/-13	*	.1	.2	.0	*	.0	.0	.0	.0	10	.0	.4
-14/-16	.0	.1	.0	*	.0	.0	.0	.0	.0	3	.0	.1
TOTAL	1	12	102	542	906	554	170	42	11	2340	82	2258
PCT	*	.5	4.4	23.2	38.7	23.7	7.3	1.8	.5	100.0	3.5	96.5

PERIOD: (OVER-ALL) 1963-1972

TABLE 18

PCT FREQ OF WIND SPEED (KTS) AND DIRECTION VERSUS SEA HEIGHTS (FT)

HGT	1-3	4-10	11-21	22-33	34-47	48+	PCT	1-3	4-10	11-21	22-33	34-47	48+	PCT
<1	.1	.8	.0	.0	.0	.0	.9	.3	.9	.2	.0	.0	.0	1.4
1-2	.2	2.5	.4	.0	.0	.0	3.1	.0	3.6	1.3	.0	.0	.0	4.9
3-4	.0	.6	1.1	.0	.0	.0	1.7	.2	1.7	3.2	.0	.0	.0	5.1
5-6	.0	.0	.4	.0	.0	.0	.4	.0	*	1.2	.0	.0	.0	1.2
7	.0	.0	.2	.3	.0	.0	.4	.0	.0	.2	.5	.0	.0	.7
8-9	.0	.0	.0	.3	.0	.0	.3	.0	.0	.0	.2	.0	.0	.2
10-11	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
12	.0	.0	.0	.0	.0	.0	.0	.0	.0	.2	.2	.0	.0	.3
13-16	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
17-19	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
20-22	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
23-25	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
26-32	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
33-40	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
41-48	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
49-60	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
61-70	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
71-86	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
87+	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
TOT PCT	.3	3.9	2.1	.6	.0	.0	6.8	.5	6.3	6.1	.8	.0	.0	13.7

HGT	1-3	4-10	11-21	22-33	34-47	48+	PCT	1-3	4-10	11-21	22-33	34-47	48+	PCT
<1	.3	.4	.1	.0	.0	.0	.8	.6	.4	*	.0	.0	.0	1.1
1-2	.0	2.3	.5	.0	.0	.0	2.8	.0	2.1	1.3	.0	.0	.0	3.5
3-4	.0	1.2	1.6	.6	.0	.0	3.4	.2	1.7	1.6	*	.0	.0	3.4
5-6	.0	.5	1.1	.0	.0	.0	1.6	.0	.2	.9	.0	.0	.0	1.1
7	.0	.0	.0	.0	.0	.0	.0	.0	.0	*	.0	.0	.0	*
8-9	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.2	.0	.0	.2
10-11	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
12	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
13-16	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
17-19	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
20-22	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
23-25	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
26-32	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
33-40	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
41-48	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
49-60	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
61-70	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
71-86	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
87+	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
TOT PCT	.3	4.5	3.3	.6	.0	.0	8.6	.8	4.5	3.8	.2	.0	.0	9.3

PERIOD: (OVER-ALL) 1963-1972

MARCH

AREA 0009 MELBOURNE SE  
38.55 146.8E

TABLE 18 (CONT)

PCT FREQ OF WIND SPEED (KTS) AND DIRECTION VERSUS SEA HEIGHTS (FT)

HGT	S								SW								PCT
	1-3	4-10	11-21	22-33	34-47	48+	PCT		1-3	4-10	11-21	22-33	34-47	48+	PCT		
<1	.0	.7	.2	.0	.0	.0	.9		.2	.5	.0	.0	.0	.0	.6		
1-2	.3	1.8	.5	.0	.0	.0	2.6		.2	2.6	1.0	.0	.0	.0	3.9		
3-4	.2	1.2	1.3	.0	.0	.0	2.7		.0	2.3	4.7	.7	.0	.0	7.7		
5-6	.0	.4	1.0	.0	.0	.0	1.4		.0	.4	3.8	1.1	.0	.0	5.4		
7	.0	.0	.6	.1	.0	.0	.7		.0	.2	1.6	2.1	.0	.0	3.9		
8-9	.0	.0	.2	.3	.0	.0	.4		.0	.0	.3	.7	.2	.0	1.2		
10-11	.0	.0	.1	.2	.0	.0	.3		.0	.0	.3	.2	.2	.0	.7		
12	.0	.0	.0	.0	.0	.0	.0		.0	.0	.0	.2	.2	.0	.5		
13-16	.0	.0	.0	.0	.0	.0	.0		.0	.0	.0	.2	.2	.0	.4		
17-19	.0	.0	.0	.0	.0	.0	.0		.0	.0	.0	.2	.0	.0	.2		
20-22	.0	.0	.0	.0	.0	.0	.0		.0	.0	.0	.0	.0	.0	.0		
23-25	.0	.0	.0	.0	.0	.0	.0		.0	.0	.0	.0	.0	.0	.0		
26-32	.0	.0	.0	.0	.0	.0	.0		.0	.0	.0	.0	.0	.0	.0		
33-40	.0	.0	.0	.0	.0	.0	.0		.0	.0	.0	.0	.0	.0	.0		
41-48	.0	.0	.0	.0	.0	.0	.0		.0	.0	.0	.0	.0	.0	.0		
49-60	.0	.0	.0	.0	.0	.0	.0		.0	.0	.0	.0	.0	.0	.0		
61-70	.0	.0	.0	.0	.0	.0	.0		.0	.0	.0	.0	.0	.0	.0		
71-86	.0	.0	.0	.0	.0	.0	.0		.0	.0	.0	.0	.0	.0	.0		
87+	.0	.0	.0	.0	.0	.0	.0		.0	.0	.0	.0	.0	.0	.0		
TOT PCT	.4	4.1	3.9	.5	.0	.0	8.9		.4	5.9	11.7	5.7	.6	.3	24.5		

HGT	W								NW								TOTAL PCT
	1-3	4-10	11-21	22-33	34-47	48+	PCT		1-3	4-10	11-21	22-33	34-47	48+	PCT		
<1	.4	.2	.0	.0	.0	.0	.6		.2	.2	.0	.0	.0	.0	.4		
1-2	.1	1.7	1.4	.0	.0	.0	3.2		.0	2.1	.5	.0	.0	.0	2.6		
3-4	.0	1.0	3.7	1.3	.0	.0	5.9		.0	.7	.7	.0	.0	.0	1.4		
5-6	.0	.3	2.4	1.4	.0	.0	4.1		.0	.0	.2	.1	.0	.0	.3		
7	.0	.0	1.3	1.2	.2	.2	2.8		.0	.0	.2	.0	.0	.0	.2		
8-9	.0	.0	.3	1.7	.3	.0	1.3		.0	.0	.0	.0	.0	.0	.0		
10-11	.0	.0	.3	1.4	.2	.0	1.9		.0	.0	.0	.2	.0	.0	.2		
12	.0	.0	.0	.3	.0	.0	.3		.0	.0	.0	.0	.0	.0	.0		
13-16	.0	.0	.0	.5	.4	.0	.9		.0	.0	.0	.0	.0	.0	.0		
17-19	.0	.0	.0	.0	.0	.0	.0		.0	.0	.0	.0	.0	.0	.0		
20-22	.0	.0	.0	.0	.0	.0	.0		.0	.0	.0	.0	.0	.0	.0		
23-25	.0	.0	.0	.0	.0	.0	.0		.0	.0	.0	.0	.0	.0	.0		
26-32	.0	.0	.0	.0	.0	.0	.0		.0	.0	.0	.0	.0	.0	.0		
33-40	.0	.0	.0	.0	.0	.0	.0		.0	.0	.0	.0	.0	.0	.0		
41-48	.0	.0	.0	.0	.0	.0	.0		.0	.0	.0	.0	.0	.0	.0		
49-60	.0	.0	.0	.0	.0	.0	.0		.0	.0	.0	.0	.0	.0	.0		
61-70	.0	.0	.0	.0	.0	.0	.0		.0	.0	.0	.0	.0	.0	.0		
71-86	.0	.0	.0	.0	.0	.0	.0		.0	.0	.0	.0	.0	.0	.0		
87+	.0	.0	.0	.0	.0	.0	.0		.0	.0	.0	.0	.0	.0	.0		
TOT PCT	.5	3.1	9.4	6.9	1.0	.2	21.2		.2	3.0	1.5	.2	.1	.0	5.0	98.1	

WIND SPEED (KTS) VS SEA HEIGHT (FT)

HGT	0-3	4-10	11-21	22-33	34-47	48+	PCT	TOT DBS
<1	5.7	4.4	.5	.0	.0	.0	10.5	
1-2	1.1	18.2	6.8	.0	.0	.0	26.1	
3-4	.8	10.1	17.3	2.6	.0	.0	30.7	
5-6	.0	1.8	10.7	2.6	.0	.0	15.1	
7	.0	.3	3.9	4.1	.2	.2	8.6	
8-9	.0	.0	.8	2.3	.5	.0	3.5	
10-11	.0	.0	.5	2.0	.5	.2	3.0	
12	.0	.0	.2	.8	.2	.0	1.1	
13-16	.0	.0	.0	.8	.5	.2	1.4	
17-19	.0	.0	.0	.2	.0	.0	.2	
20-22	.0	.0	.0	.0	.0	.0	.0	
23-25	.0	.0	.0	.0	.0	.0	.0	
26-32	.0	.0	.0	.0	.0	.0	.0	
33-40	.0	.0	.0	.0	.0	.0	.0	
41-48	.0	.0	.0	.0	.0	.0	.0	
49-60	.0	.0	.0	.0	.0	.0	.0	
61-70	.0	.0	.0	.0	.0	.0	.0	
71-86	.0	.0	.0	.0	.0	.0	.0	
87+	.0	.0	.0	.0	.0	.0	.0	
TOT PCT	7.5	34.8	40.5	15.1	1.7	.5	100.0	664

PERIOD: (OVER-ALL) 1949-1972

TABLE 19

PERCENT FREQUENCY OF WAVE HEIGHT (FT) VS WAVE PERIOD (SECONDS)

PERIOD (SEC)	<1	1-2	3-4	5-6	7	8-9	10-11	12	13-16	17-19	20-22	23-25	26-32	33-40	41-48	49-60	61-70	71-86	87+	TOTAL	MEAN HGT
<6	1.4	10.0	13.2	6.7	2.5	1.3	.2	.1	.3	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	314	4
6-7	.0	.9	6.9	11.6	6.9	2.3	1.7	.6	.5	.1	.1	.0	.0	.0	.0	.0	.0	.0	.0	278	6
8-9	.0	.3	1.6	3.9	5.1	2.4	1.6	1.3	1.0	.1	.1	.0	.0	.0	.0	.0	.0	.0	.0	153	7
10-11	.0	.2	1.1	1.0	.5	.9	1.1	.2	.8	.1	.0	.0	.1	.0	.0	.0	.0	.0	.0	54	8
12-13	.0	.0	.7	.5	.1	.5	.2	.2	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	19	6
13-14	.0	.0	.0	.1	.1	.0	.1	.0	.2	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	5	10
UNDET	2.5	.2	1.1	1.6	.2	.1	.1	.0	.3	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	88	3
TOTAL	34	103	217	223	136	65	45	21	28	3	2	0	1	0	0	0	0	0	0	878	
PCT	3.9	11.7	24.7	25.4	15.5	7.4	5.1	2.4	3.2	.3	.2	.0	.1	.0	.0	.0	.0	.0	.0	100.0	



PERIOD: (PRIMARY) 1906-1969  
(OVER-ALL) 1857-1969

APRIL

AREA 0009 MELBOURNE SE  
38.65 146.8E

TABLE 1

PERCENT FREQUENCY OF WEATHER OCCURRENCE BY WIND DIRECTION

PRECIPITATION TYPE										OTHER WEATHER PHENOMENA						
WIND DIR	RAIN	RAIN SHWR	DRZL	FRZG PCPN	SNOW	OTHER FRZN PCPN	HAIL	PCPN AT DB TIME	PCPN PAST HOUR	THDR LTNG	FGD WD PCPN	FGD WD PCPN PAST HR	SMDKE HAZE	SPRAY BLWG SNOW	DUST	NO SIG WEA
N	3.6	3.1	2.4	.0	.0	.0	.0	9.1	.0	2.8	7.5	.0	1.4	.0	.0	79.2
NE	3.0	2.4	.4	.0	.0	.0	.0	5.9	.4	.9	4.9	.0	1.0	.0	.0	87.8
E	3.0	3.9	1.7	.0	.0	.0	.0	8.1	.8	.2	3.1	.5	.8	.0	.0	84.4
SE	6.5	7.3	2.0	.0	.0	.0	.0	15.8	.1	1.7	2.8	.0	.6	.0	.0	79.5
S	4.7	8.3	.9	.0	.0	.0	.0	13.8	2.6	.8	1.8	.0	1.0	.0	.0	80.5
SW	5.0	9.4	.8	.0	.0	.0	.1	15.3	1.5	.8	.7	.0	1.0	.0	.0	81.2
W	4.3	15.6	1.3	.0	.0	.0	.1	21.2	2.0	.9	.7	.0	.2	.0	.0	75.6
NW	5.3	6.1	.5	.0	.0	.0	.0	11.9	1.8	2.0	2.8	.0	.7	.0	.0	82.3
VAR	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
CALM	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	3.7	.0	.0	.0	.0	96.3
TOT PCT	4.4	8.5	1.2	.0	.0	.0	*	14.0	1.3	1.1	2.6	*	.8	.0	.0	80.7
TOT OBS:	2304															

TABLE 2

PERCENT FREQUENCY OF WEATHER OCCURRENCE BY HOUR

HOUR (GMT)	PRECIPITATION TYPE							OTHER WEATHER PHENOMENA								
	RAIN	RAIN SHWR	DRZL	FRZG PCPN	SNOW	OTHER FRZN PCPN	HAIL	PCPN AT DB TIME	PCPN PAST HOUR	THDR LTNG	FGG WD PCPN	FGG WD PCPN PAST HR	SMOKE HAZE	SPRAY BLWG BLWG	DUST SNOW	NO SIG WEA
00003	3.6	6.0	1.3	.0	.0	.0	.0	10.9	.9	.2	4.7	.4	.8	.0	.0	82.1
06009	4.3	9.8	1.1	.0	.0	.0	.1	15.3	1.3	1.2	2.9	.0	1.1	.0	.0	79.0
12015	3.5	7.7	.9	.0	.0	.0	.0	12.1	1.5	1.5	.9	.0	.7	.0	.0	84.2
18021	5.0	8.9	1.2	.0	.0	.0	.0	15.9	1.2	1.8	1.9	.0	.4	.0	.0	79.6
TOT PCT TOT OBS:	4.5 2417	8.3	1.1	.0	.0	.0	*	13.9	1.2	1.2	2.6	.1	.7	.0	.0	80.8

TABLE 3

PERCENTAGE FREQUENCY OF WIND DIRECTION BY SPEED AND BY HOUR

WIND DIR	WIND SPEED (KNOTS)							48+	TOTAL DBS	PCT FREQ	MEAN SPD	HOUR (GMT)							
	0-3	4-10	11-21	22-33	34-47	00	03					06	09	12	15	18	21		
N	.8	5.2	2.6	.3	*	.0		8.9	9.6	11.3	10.6	5.2	6.5	4.7	9.2	11.8	11.4		
NE	.8	5.4	3.4	.5	.1	.0		10.1	10.5	11.6	8.8	8.7	9.9	14.0	11.3	10.7	9.9		
E	.7	4.7	3.1	.8	.1	.0		9.5	11.3	7.1	8.4	11.5	9.9	10.0	9.6	9.5	8.4		
SE	.6	4.6	1.7	.8	.1	*		7.8	11.3	6.0	9.1	9.0	8.6	3.9	7.4	7.7	6.8		
S	.7	3.4	2.4	1.2	.1	*		7.8	12.5	6.9	6.4	9.6	8.7	10.1	7.7	7.6	5.9		
SW	1.0	6.2	8.6	4.2	1.3	.2		21.4	16.5	18.2	17.9	23.9	23.1	24.0	23.2	19.0	20.8		
W	.8	6.1	8.8	5.5	1.5	.1		22.9	17.5	26.3	24.8	24.2	21.7	23.5	20.0	20.9	23.6		
NW	.6	4.1	2.8	1.3	.3	.1		9.3	13.9	12.1	10.9	6.3	7.4	5.8	8.2	10.6	13.0		
VAR	.0	.0	.0	.0	.0	.0		.0	.0	.0	.0	.0	.0	.0	.0	.0	.0		
CALM	2.2							2.2	.0	.4	3.1	1.6	2.2	4.0	3.5	2.3	.2		
TOT DBS	289	1378	1160	512	124	16	3479		13.7	228	575	611	659	198	434	563	411		
TOT PCT	8.3	39.6	33.3	14.7	3.6	.5		100.0		100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0		

TABLE 3A

WIND DIR	WIND SPEED (KNOTS)					TOTAL DBS	PCT FREQ	MEAN SPD	HOUR (GMT)				
	0-6	7-16	17-27	28-40	41+				00	06	12	18	21
N	3.1	4.7	1.0	.1	.0		8.9	9.6	10.8	5.8	7.8	11.6	
NE	2.9	5.5	1.5	.2	.0		10.1	10.5	9.6	9.2	12.1	10.3	
E	2.8	4.6	1.8	.3	.0		9.5	11.3	8.1	10.8	9.7	9.0	
SE	2.5	3.6	1.2	.5	*		7.8	11.3	8.3	8.8	6.3	7.3	
S	2.2	3.4	1.6	.6	*		7.8	12.5	6.5	9.2	8.5	6.9	
SW	3.3	8.0	6.9	2.7	.5		21.4	16.5	18.0	24.4	23.4	19.8	
W	4.8	8.5	7.7	3.2	.7		22.9	17.5	25.2	23.1	21.1	22.0	
NW	2.1	4.2	1.9	.9	.2		9.3	13.9	11.2	6.8	7.4	11.6	
VAR	.0	.0	.0	.0	.0		.0	.0	.0	.0	.0	.0	
CALM	2.2						2.2	.0	2.4	1.9	3.6	1.4	
TOT DBS	832	1480	821	294	52	3479		13.7	803	1070	632	974	
TOT PCT	23.9	42.5	23.6	8.5	1.5		100.0		100.0	100.0	100.0	100.0	

PERIOD: (PRIMARY) 1906-1969  
(OVER-ALL) 1857-1969

APRIL

AREA 0009 MELBOURNE SE  
38.65 146.8E

TABLE 4

PERCENTAGE FREQUENCY OF WIND SPEED BY HOUR (GMT)

HOUR	CALM	1-3	4-10	WIND SPEED (KNOTS)				48+	MEAN	PCT FREQ	TOTAL OBS
				11-21	22-33	34-47					
00003	2.4	6.0	37.1	34.5	15.9	3.6	.5	14.1	100.0		803
06009	1.9	6.0	38.3	33.6	16.2	3.4	.7	14.0	100.0		1070
12015	3.6	6.6	41.5	32.9	11.7	3.6	.0	12.7	100.0		632
18021	1.4	6.1	41.9	32.3	14.1	3.7	.5	13.7	100.0		974
TOT	76	213	1378	1160	512	124	10	13.7			3479
PCT	2.2	6.1	39.6	33.3	14.7	3.6	.5	100.0			

TABLE 5

PCT FREQ OF TOTAL CLOUD AMOUNT (EIGHTHS)  
BY WIND DIRECTION

WIND DIR	0-2	3-4	5-7	8 & OBS	TOTAL OBS	MEAN CLOUD COVER
N	3.6	.8	2.3	1.1		3.9
NE	7.0	.9	2.6	1.0		2.8
E	3.8	.8	2.5	2.3		4.1
SE	1.0	1.1	2.4	1.9		5.2
S	1.6	1.4	3.7	1.7		5.1
SW	4.6	4.3	8.6	4.5		4.9
W	5.5	3.8	8.6	5.6		5.0
NW	2.3	2.1	3.0	1.9		4.8
VAR	.0	.0	.0	.0		.0
CALM	.7	.1	.5	.3		3.7
TOT OBS	223	115	254	151	743	4.5
TOT PCT	30.0	15.5	34.2	20.3	100.0	

TABLE 6

PERCENTAGE FREQUENCY OF CEILING HEIGHTS (FT, NH >4/8)  
AND OCCURRENCE OF NH <5/8 BY WIND DIRECTION

000	150	300	600	1000	2000	3500	5000	6500	8000+	NH <5/8	TOTAL
149	299	599	999	1999	3499	4999	6499	7999		ANY HGT	OBS
.0	.0	.1	.5	.8	.3	.4	.0	.0	.3	5.3	
.1	.0	.4	.8	.8	.1	.1	.1	.1	.0	9.0	
.0	.0	.2	1.3	1.0	.7	.0	.1	.0	.3	5.8	
.0	.0	.1	.3	1.1	.7	.5	.2	.0	.1	3.2	
.1	.0	.1	.6	2.0	.8	.5	.4	.0	.0	4.0	
.0	.0	.4	2.4	3.8	2.0	1.1	.5	.0	.1	11.8	
.1	.1	.0	2.2	6.5	1.3	.7	.4	.0	.1	12.0	
.0	.0	.0	.5	1.4	.4	.6	.1	.0	.1	6.1	
.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
.0	.0	.0	.1	.1	.1	.1	.0	.0	.0	1.1	
.3	1	8	63	131	53	30	13	1	7	433	743
.4	.1	1.1	8.5	17.6	7.1	4.0	1.7	.1	.9	58.3	100.0

TABLE 7

CUMULATIVE PCT FREQ OF SIMULTANEOUS OCCURRENCE  
OF CEILING HEIGHT (NH >4/8) AND VSBY (NM)

CEILING (FEET)	VSBY (NM)							
	>10	>5	>2	>1	>1/2	>1/4	>50YD	>0
>6500	.9	1.0	1.0	1.0	1.0	1.0	1.0	1.0
>5000	2.0	2.7	2.7	2.7	2.7	2.7	2.7	2.7
>3500	5.1	6.1	6.4	6.4	6.4	6.4	6.4	6.4
>2000	11.7	13.2	13.8	13.8	13.8	13.8	13.8	13.8
>1000	25.6	30.2	31.2	31.2	31.2	31.2	31.2	31.2
>600	31.4	38.2	39.5	39.5	39.5	39.5	39.5	39.5
>300	31.8	39.1	40.5	40.5	40.5	40.5	40.5	40.5
>150	31.8	39.2	40.7	40.7	40.7	40.7	40.7	40.7
>0	31.9	39.5	41.1	41.1	41.1	41.1	41.1	41.1
TOTAL	245	303	315	315	315	315	315	315

TOTAL NUMBER OF OBS: 767

PCT FREQ NH <5/8: 58.9

TABLE 7A

PERCENTAGE FREQ OF LOW CLOUDS (EIGHTHS)

0	1	2	3	4	5	6	7	8	OBS	TOTAL OBS
14.6	14.1	12.0	8.5	8.2	9.0	10.0	11.3	12.1	.2	919

APRIL

PERIOD: (PRIMARY) 1906-1969  
(OVER-ALL) 1857-1969AREA 0009 MELBOURNE SE  
38.65 146.8E

TABLE 8

PERCENT FREQ OF WIND DIRECTION VS OCCURRENCE OR NON-OCCURRENCE OF  
PRECIPITATION WITH VARYING VALUES OF VISIBILITY

VSBY (NM)		N	NE	E	SE	S	SW	W	NW	VAR	CALM	PCT	TOTAL OBS
<1/2	PCP	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
	NO PCP	.2	.0	.0	*	.1	.0	*	.1	.0	.0	.4	
	TOT %	.2	.0	.0	*	.1	.0	*	.1	.0	.0	.4	
1/2<1	PCP	.0	.0	.0	.0	.0	.1	.2	*	.0	.0	.4	
	NO PCP	.3	.2	.3	.1	*	.1	.2	.1	.0	.0	1.3	
	TOT %	.3	.2	.3	.1	*	.2	.4	.1	.0	.0	1.7	
1<2	PCP	.0	.0	*	*	*	.1	*	.0	.0	.0	.3	
	NO PCP	.1	.0	.0	*	*	.2	.1	.1	.0	.0	.6	
	TOT %	.1	.0	*	*	.1	.3	.2	.1	.0	.0	.8	
2<5	PCP	.0	*	.2	.2	.2	.3	.1	.0	.0	.0	1.0	
	NO PCP	.1	.1	.1	*	.1	.2	.1	.1	.0	.0	.9	
	TOT %	.1	.1	.3	.2	.3	.5	.2	.1	.0	.0	1.9	
5<10	PCP	.7	.5	.4	.9	.8	2.4	4.1	.9	.0	.0	10.7	
	NO PCP	3.3	3.1	3.9	3.5	3.5	7.8	8.8	3.2	.0	.4	37.6	
	TOT %	4.0	3.6	4.3	4.5	4.4	10.2	12.9	4.0	.0	.4	48.4	
10+	PCP	.2	*	.1	.1	.1	.4	.6	.2	.0	.0	1.7	
	NO PCP	4.2	3.8	3.8	2.8	3.4	10.3	9.6	4.5	.0	.7	45.1	
	TOT %	4.4	3.8	3.9	2.8	3.5	10.7	10.2	4.7	.0	.7	46.8	
TOT OBS													
TOT PCT													
9.1 9.7 8.9 7.7 8.4 22.0 23.9 9.1 .0 1.2 100.0 2303													

TABLE 9

PERCENT FREQ OF WIND DIRECTION VS WIND SPEED  
WITH VARYING VALUES OF VISIBILITY

VSBY (NM)	SPD KTS	N	NE	E	SE	S	SW	W	NW	VAR	CALM	PCT	TOTAL OBS
<1/2	0-3	.0	.0	.0	.0	.0	.0	*	.0	.0	.0	*	
	4-10	.1	.0	.0	*	.1	.0	.0	.1	.0	.0	.3	
	11-21	.1	*	.0	.0	.0	.0	.0	.0	.0	.0	.1	
	22+	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
	TOT %	.2	*	.0	*	.1	.0	*	.1	.0	.0	.4	
1/2<1	0-3	.1	*	.0	.0	.0	*	.1	.0	.0	.0	.3	
	4-10	.1	.1	.3	*	*	*	.1	.1	.0	.0	.7	
	11-21	.1	.0	.1	*	*	.1	.1	.0	.0	.0	.3	
	22+	.0	.0	.0	*	.0	*	.1	*	.0	.0	.2	
	TOT %	.3	.1	.3	.1	*	.2	.4	.1	.0	.0	1.3	
1<2	0-3	.0	.0	.0	.0	.0	.1	.0	.0	.0	.0	.1	
	4-10	*	.0	.0	*	*	.2	.0	.0	.0	.0	.3	
	11-21	*	.0	*	*	*	*	*	.1	.0	.0	.3	
	22+	.0	.0	.0	*	*	.1	.1	*	.0	.0	.3	
	TOT %	.1	.0	*	.1	.1	.4	.2	.1	.0	.0	.9	
2<5	0-3	.0	*	*	.0	.0	.0	.0	.0	.0	.0	*	
	4-10	.1	.1	*	.1	.0	.2	.1	*	.0	.0	.5	
	11-21	*	*	.1	*	*	.1	.2	.1	.0	.0	.8	
	22+	*	*	.1	.1	.3	.3	.1	*	.0	.0	.9	
	TOT %	.1	.2	.2	.2	.3	.7	.5	.2	.0	.0	2.3	
5<10	0-3	.3	.3	.3	.3	.3	.5	.4	.4	.0	.4	3.2	
	4-10	2.0	1.9	2.2	2.3	1.4	2.5	2.6	1.5	.0	.0	16.5	
	11-21	1.1	1.1	1.3	.7	1.4	3.9	5.1	1.1	.0	.0	15.7	
	22+	.1	.1	.3	.9	.8	2.5	3.8	.7	.0	.0	9.2	
	TOT %	3.5	3.4	4.0	4.3	4.0	9.5	11.9	3.7	.0	.4	44.7	
10+	0-3	.3	.3	.3	.3	.5	.6	.3	.2	.0	1.0	3.9	
	4-10	2.8	3.2	2.2	2.2	2.1	3.3	3.2	2.4	.0	.0	21.5	
	11-21	1.3	1.9	1.5	.9	1.1	5.2	4.3	1.3	.0	.0	17.7	
	22+	.1	.3	.5	.2	.5	2.5	2.3	.8	.0	.0	7.1	
	TOT %	4.5	5.7	4.6	3.6	4.3	11.6	10.2	4.7	.0	1.0	50.2	
TOT OBS													
TOT PCT													
8.7 9.5 9.2 8.3 8.7 22.3 23.1 8.8 .0 1.4 100.0 2593													



APRIL

PERIOD: (PRIMARY) 1906-1949  
(OVER-ALL) 1857-1969AREA 0009 MELBOURNE SE  
38.65 146.8E

TABLE 10

PERCENT FREQUENCY OF CEILING HEIGHTS (FEET, NH >4/8) AND  
OCCURRENCE OF NH <5/8 BY HOUR

HR	000	150	300	600	1000	2000	3500	5000	6500	8000+	TOTAL	NH <5/8 ANY HGT	TOTAL OBS
(GMT)	149	299	599	999	1999	3499	4999	6499	7999				
00003	.0	.4	1.7	8.4	16.0	9.3	4.6	1.3	.0	.4	42.2	57.8	237
06009	.0	.0	1.4	8.7	17.0	9.6	2.8	.9	.0	.5	40.8	59.2	218
12015	.5	.0	.0	3.7	14.8	3.2	1.6	1.0	.5	.0	25.9	74.1	189
18021	1.0	.0	.5	9.5	14.9	4.0	5.0	2.5	.0	2.5	39.8	60.2	201
TOT	3	1	8	65	133	57	30	13	1	7	318	527	845
PCT	.4	.1	.9	7.7	15.7	6.7	3.6	1.5	.1	.8	37.6	62.4	100.0

TABLE 11

PERCENT FREQUENCY VSBY (NM) BY HOUR

HR	<1/2	1/2<1	1<2	2<5	5<10	10+	TOTAL OBS
(GMT)							
00003	.9	2.3	.5	3.3	36.7	56.3	577
06009	.5	1.8	1.4	2.0	51.1	43.2	842
12015	.2	.4	.8	1.6	41.2	55.8	514
18021	.3	1.7	.8	2.1	48.5	46.7	773
TOT	12	43	25	60	1229	1337	2706
PCT	.4	1.6	.9	2.2	45.4	49.4	100.0

TABLE 12

CUMULATIVE PCT FREQ OF RANGES OF VSBY (NM) AND/OR  
CEILING HGT (FEET, NH >4/8) BY HOUR

HR	<150 <500	<600 <1	<1000 <5	1000+ AND 5+	NH <5/8 AND 5+	TOTAL OBS
(GMT)						
00003	.0	2.7	13.4	32.6	54.0	224
06009	.0	1.5	12.4	33.0	54.6	194
12015	.6	.6	5.7	22.2	72.2	176
18021	1.2	1.7	13.3	32.4	54.3	173
TOT	3	13	87	232	448	767
PCT	.4	1.7	11.3	30.2	58.4	100.0

TABLE 13

PERCENT FREQUENCY OF RELATIVE HUMIDITY BY TEMP

TEMP F	0-29	30-39	40-49	50-59	60-69	70-79	80-89	90-100	TOTAL OBS	PCT FREQ
75/79	.0	.1	.0	.0	.0	.1	.0	.0	2	.2
70/74	.0	.0	.0	.1	.5	.4	.3	.2	19	1.5
65/69	.0	.0	.2	.8	1.6	5.2	5.1	3.1	204	16.0
60/64	.0	.0	.2	1.5	6.5	13.2	13.3	6.5	525	41.2
55/59	.0	.0	.1	1.5	6.6	13.2	11.1	5.3	482	37.8
50/54	.0	.0	.0	.2	.3	.7	1.0	1.0	41	3.2
45/49	.0	.0	.0	.0	.0	.0	.1	.1	2	.2
TOTAL	0	1	6	51	198	417	395	207	1275	100.0
PCT	.0	.1	.5	4.0	15.5	32.7	31.0	16.2		

TABLE 14

PERCENT FREQUENCY OF WIND DIRECTION BY TEMP

	N	NE	E	SE	S	SW	W	NW	VAR	CALM
75/79	.1	.0	.0	.0	.0	.0	.1	*	.0	.0
70/74	.6	.5	.2	.0	.1	.0	.1	.1	.0	.0
65/69	2.6	4.5	2.0	.8	.3	1.2	2.2	1.9	.0	.5
60/64	3.7	5.2	5.5	3.1	2.4	7.4	10.1	3.1	.0	.8
55/59	1.1	1.3	1.9	3.0	5.2	11.9	10.1	2.7	.0	.5
50/54	.1	.0	.0	.1	.5	1.6	.7	.2	.0	.0
45/49	.0	.0	.0	.0	.0	.1	.1	.0	.0	.0
TOTAL	8.2	11.5	9.6	7.0	8.5	22.2	23.3	8.0	.0	1.7

TABLE 15

MEANS, EXTREMES AND PERCENTILES OF TEMP (DEG F) BY HOUR

HR	MAX	99%	95%	50%	5%	1%	MIN	MEAN	TOTAL OBS
(GMT)									
00003	77	72	68	62	55	52	46	62.0	893
06009	76	72	68	61	55	52	46	61.3	1082
12015	71	69	66	60	55	52	50	60.1	648
18021	71	68	66	59	54	52	48	59.6	1001
TOT	77	71	67	61	55	52	46	60.8	3534

TABLE 16

PERCENT FREQUENCY OF RELATIVE HUMIDITY BY HOUR

HR	0-29	30-59	60-69	70-79	80-89	90-100	MEAN	TOTAL OBS
(GMT)								
00003	.0	7.8	14.9	37.9	27.6	11.8	77	322
06009	.0	5.9	18.7	32.0	29.6	13.9	77	375
12015	.0	3.4	17.1	29.3	33.1	17.1	79	263
18021	.0	2.3	11.0	31.6	33.9	21.2	81	354
TOT	0	64	202	431	407	210	78	1314

APRIL

PERIOD: (PRIMARY) 1906-1969  
(OVER-ALL) 1857-1969

TABLE 17

AREA 0009 MELBOURNE SE  
38.65 146.8EPCT FREQ OF AIR TEMPERATURE (DEG F) AND THE OCCURRENCE OF FOG (WITHOUT PRECIPITATION)  
VS AIR-SEA TEMPERATURE DIFFERENCE (DEG F)

AIR-SEA TMP DIF	45 48	49 52	53 56	57 60	61 64	65 68	69 72	73 76	TOT	W FOG	WO FOG
14/16	.0	.0	.0	.0	*	.1	.0	.0	3	.0	.1
11/13	.0	.0	.0	*	*	.0	*	.1	5	.0	.2
9/10	.0	.0	.0	.0	.0	.0	.2	.1	7	.0	.3
7/8	.0	.0	.0	.0	.1	.3	.5	.1	20	.0	.9
6	.0	.0	.0	*	.0	.3	.4	*	18	.1	.7
5	.0	.0	.0	*	.1	.7	.2	*	24	.0	1.1
4	.0	.0	*	.1	.5	1.6	.3	*	54	.1	2.0
3	.0	.0	.0	.0	.8	2.2	.1	.0	65	*	3.0
2	.0	.0	*	.5	3.6	2.4	.3	*	148	.3	6.6
1	.0	.0	.1	1.3	4.7	1.9	.2	.0	174	.2	8.0
0	.0	.0	.2	3.5	9.2	1.3	.1	.0	305	.3	14.0
-1	.0	.0	.3	5.3	5.1	1.0	.1	.0	250	.4	11.4
-2	.0	.0	.8	8.4	4.4	.5	.0	.0	298	.4	13.7
-3	.0	*	2.1	6.1	2.2	.7	.0	.0	234	.3	10.7
-4	.0	*	2.5	4.4	1.0	.1	.0	.0	174	.3	7.9
-5	.0	.2	1.7	3.3	1.2	*	.0	.0	137	.2	6.3
-6	.0	.1	1.4	1.4	.6	*	.0	.0	77	.0	3.6
-7/-8	.0	.5	1.8	1.6	.2	.0	.0	.0	88	.1	4.0
-9/-10	.0	.4	.6	.5	.1	.0	.0	.0	34	.0	1.6
-11/-13	*	.0	.1	.1	.0	.0	.0	.0	7	.0	.3
TOTAL	1		251		719		53		2122	60	2062
PCT	*	28	780		279		11		100.0	2.8	97.2
		1.3	11.8	36.8	33.9	13.1	2.5	.5			

PERIOD: (OVER-ALL) 1963-1969

TABLE 18

PCT FREQ OF WIND SPEED (KTS) AND DIRECTION VERSUS SEA HEIGHTS (FT)

HGT	1-3	4-10	11-21	22-33	34-47	48+	PCT	1-3	4-10	11-21	22-33	34-47	48+	PCT
<1	.1	.6	.0	.0	.0	.0	.7	.0	.9	.0	.0	.0	.0	.9
1-2	.0	3.1	.5	.0	.0	.0	3.7	.0	4.2	1.4	.0	.0	.0	5.6
3-4	.0	.7	.7	.0	.0	.0	1.3	.0	.9	1.1	.0	.0	.0	2.0
5-6	.0	.0	.3	.0	.0	.0	.3	.0	.5	1.3	.0	.0	.0	1.8
7	.0	.0	.6	.2	.0	.0	.8	.0	.0	.2	*	.0	.0	.3
8-9	.0	.0	.2	.1	.0	.0	.3	.0	.0	.2	.0	.2	.0	.4
10-11	.0	.0	.0	.0	.0	.0	.0	.0	.0	*	.0	.0	.0	.2
12	.0	.0	.2	.0	.0	.0	.2	.0	.0	.0	.0	.0	.0	.0
13-16	.0	.0	.0	.0	.0	.0	.0	.0	.0	*	.0	.0	.0	.1
17-19	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
20-22	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
23-25	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
26-32	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
33-40	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
41-48	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
49-60	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
61-70	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
71-86	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
87+	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
TOT PCT	.1	4.4	2.4	.3	.0	.0	7.3	.0	6.4	4.3	.3	.2	.0	11.3

HGT	1-3	4-10	11-21	22-33	34-47	48+	PCT	1-3	4-10	11-21	22-33	34-47	48+	PCT
<1	.0	.2	.0	.0	.0	.0	.2	.2	.1	.0	.0	.0	.0	.3
1-2	.2	3.0	.8	.0	.0	.0	3.9	.0	1.7	.6	.0	.0	.0	2.3
3-4	.0	.7	1.9	.3	.0	.0	2.9	.0	.4	1.0	.2	.0	.0	1.6
5-6	.0	.1	1.7	.3	.0	.0	2.1	.0	.4	1.0	.4	.0	.0	1.7
7	.0	.0	.2	.6	.2	.0	1.0	.0	.2	.0	*	.0	.0	.2
8-9	.0	.0	.1	.0	.1	.0	.3	.0	.0	*	.0	.0	.0	*
10-11	.0	.0	.1	.0	.0	.0	.1	.0	.0	.0	.0	.0	.0	.0
12	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
13-16	.0	.0	.1	.1	.0	.0	.3	.0	.0	.0	.2	.0	.0	.2
17-19	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
20-22	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
23-25	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
26-32	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
33-40	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
41-48	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
49-60	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
61-70	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
71-86	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
87+	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
TOT PCT	.2	3.9	4.9	1.4	.3	.0	10.7	.2	2.8	2.6	.8	.0	.0	6.3

PERIOD: (OVER-ALL) 1963-1969

APRIL

AREA 0009 MELBOURNE SE  
38.65 146.8E

TABLE 18 (CONT)

PCT FREQ OF WIND SPEED (KTS) AND DIRECTION VERSUS SEA HEIGHTS (FT)

HGT	1-3	4-10	11-21	22-33	34-47	48+	PCT	1-3	4-10	11-21	22-33	34-47	48+	PCT
<1	.2	.6	.0	.0	.0	.0	.7	.5	.6	.2	.0	.0	.0	1.3
1-2	.4	1.5	.7	.0	.0	.0	2.6	.3	2.8	2.1	.0	.0	.0	5.2
3-4	.0	.3	1.1	.0	.0	.0	1.4	.2	1.3	3.3	.5	.0	.0	5.3
5-6	.0	.1	1.0	.3	.0	.0	1.4	.0	.2	3.4	.7	.2	.0	4.5
7	.0	.0	.1	.0	.0	.0	.1	.0	.2	1.1	.4	.2	.0	1.9
8-9	.0	.0	.0	.3	.0	.0	.3	.0	.0	.3	1.0	.0	.0	1.3
10-11	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.5	.3	.0	.9
12	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.3	.2	.0	.6
13-16	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
17-19	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
20-22	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.2	.0	.2
23-25	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
26-32	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
33-40	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
41-48	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
49-60	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
61-70	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
71-86	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
87+	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
TOT PCT	.6	2.5	2.9	.7	.0	.0	6.6	1.0	5.1	10.5	3.5	1.1	.0	21.1

HGT	1-3	4-10	11-21	22-33	34-47	48+	PCT	1-3	4-10	11-21	22-33	34-47	48+	PCT	TOTAL PCT
<1	.2	.8	.0	.0	.0	.0	1.0	.4	.5	.0	.0	.0	.0	.9	
1-2	.0	3.4	1.6	.0	.0	.0	5.0	.3	2.0	.0	.0	.0	.0	2.3	
3-4	.0	1.3	3.4	.2	.0	.0	4.9	.0	1.0	1.3	.0	.0	.0	2.3	
5-6	.0	.7	4.4	1.6	.2	.0	6.9	.0	.0	.9	.4	.0	.0	1.4	
7	.0	.0	2.2	1.7	.1	.0	4.0	.0	.0	.4	.7	.4	.0	1.5	
8-9	.0	.0	.0	.6	.2	.0	.8	.0	.0	.0	.6	.0	.0	.6	
10-11	.0	.0	.3	1.0	.3	.0	1.7	.0	.0	.0	.4	.0	.0	.4	
12	.0	.0	.0	.0	.3	.0	.3	.0	.0	.0	.0	.2	.0	.2	
13-16	.0	.0	.0	.2	.3	.0	.5	.0	.0	.0	.2	.0	.0	.2	
17-19	.0	.0	.0	.0	.2	.0	.2	.0	.0	.0	.0	.0	.0	.0	
20-22	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
23-25	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
26-32	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
33-40	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
41-48	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
49-60	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
61-70	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
71-86	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
87+	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
TOT PCT	.2	6.2	12.0	5.3	1.6	.0	25.2	.7	3.5	2.7	2.3	.6	.0	9.7	98.3

WIND SPEED (KTS) VS SEA HEIGHT (FT)

HGT	0-3	4-10	11-21	22-33	34-47	48+	PCT	TOT DBS
<1	4.9	4.6	.2	.0	.0	.0	9.6	
1-2	1.4	21.3	7.4	.0	.0	.0	30.1	
3-4	.2	6.3	13.5	1.2	.0	.0	21.2	
5-6	.0	2.0	13.5	3.7	.3	.0	19.6	
7	.2	.3	4.7	3.6	.8	.0	9.6	
8-9	.0	.0	.8	2.5	.5	.0	3.9	
10-11	.0	.0	.5	2.0	.7	.0	3.2	
12	.0	.0	.2	.3	.7	.0	1.2	
13-16	.0	.0	.2	.7	.3	.0	1.2	
17-19	.0	.0	.0	.0	.2	.0	.2	
20-22	.0	.0	.0	.0	.2	.0	.2	
23-25	.0	.0	.0	.0	.0	.0	.0	
26-32	.0	.0	.0	.0	.0	.0	.0	
33-40	.0	.0	.0	.0	.0	.0	.0	
41-48	.0	.0	.0	.0	.0	.0	.0	
49-60	.0	.0	.0	.0	.0	.0	.0	
61-70	.0	.0	.0	.0	.0	.0	.0	
71-86	.0	.0	.0	.0	.0	.0	.0	
87+	.0	.0	.0	.0	.0	.0	.0	
TOT PCT	6.6	34.5	41.1	14.0	3.7	.0	100.0	591

PERIOD: (OVER-ALL) 1949-1969

TABLE 19

PERCENT FREQUENCY OF WAVE HEIGHT (FT) VS WAVE PERIOD (SECONDS)

PERIOD (SEC)	<1	1-2	3-4	5-6	7	8-9	10-11	12	13-16	17-19	20-22	23-25	26-32	33-40	41-48	49-60	61-70	71-86	87+	TOTAL	MEAN HGT
<6	1.6	9.7	9.1	7.3	2.5	.7	1.8	.3	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	240	4
6-7	.0	.7	7.8	10.4	7.5	3.6	1.8	.5	1.5	.1	.0	.0	.0	.0	.0	.0	.0	.0	.0	248	6
8-9	.0	.1	1.5	3.6	4.5	3.8	1.6	.3	1.4	.1	.4	.0	.0	.0	.0	.0	.0	.0	.0	127	8
10-11	.0	.0	.7	1.0	.8	1.0	1.1	.5	.7	.1	.0	.0	.0	.0	.0	.0	.0	.0	.0	43	8
12-13	.0	.0	.4	.0	.3	.4	.4	.0	.4	.1	.0	.0	.0	.0	.0	.0	.0	.0	.0	18	9
>13	.0	.0	.0	.1	.1	.1	.0	.0	.0	.0	.1	.1	.0	.0	.0	.0	.0	.0	.0	5	13
INDET	2.1	1.4	1.6	1.1	.4	.0	.3	.0	.0	.1	.0	.0	.0	.0	.0	.0	.0	.0	.0	51	3
TOTAL	27	87	154	171	118	70	51	12	29	5	4	1	0	0	0	0	0	0	0	729	6
PCT	3.7	11.9	21.1	23.5	16.2	9.6	7.0	1.6	4.0	.7	.5	.1	.0	.0	.0	.0	.0	.0	.0	100.0	

PERIOD: (PRIMARY) 1906-1972  
(OVER-ALL) 1855-1972

MAY

AREA 0009 MELBOURNE SE  
38.55 146.8E

TABLE 1

PERCENT FREQUENCY OF WEATHER OCCURRENCE BY WIND DIRECTION

WIND DIR	PRECIPITATION TYPE							OTHER WEATHER PHENOMENA									
	RAIN	RAIN SHWR	DRZL	FRZG PCPN	SNOW	OTHER FRZN PCPN	HAIL	PCPN AT DB TIME	PCPN PAST HOUR	THOR LTNG	FOG PCPN	FOG WD PCPN PAST HR	SMOKE HAZE	SPRAY BLWG DUST	NO SIG WEA		
N	4.6	2.4	1.6	.0	.0	.0	.0	8.7	.3	1.4	1.4	.0	1.5	.0	87.2		
NE	5.1	3.4	.6	.0	.0	.0	.0	10.1	.9	1.7	2.5	.1	1.0	.0	84.1		
E	6.3	2.2	.6	.0	.0	.0	.0	9.2	1.1	.6	.9	.5	.0	.0	87.7		
SE	5.5	4.2	1.0	.0	.0	.0	.0	10.7	1.0	.0	2.1	.0	.0	.0	86.2		
S	4.7	7.1	1.6	.0	.0	.0	.0	13.4	1.2	2.2	.0	.0	.4	.0	82.7		
SW	3.7	11.6	.8	.0	.0	.0	.7	16.8	2.9	.6	1.7	.0	.3	.0	77.8		
W	5.6	9.2	1.2	.0	.0	.0	.3	16.3	3.6	.6	1.1	.0	.2	.0	78.3		
NW	4.7	10.4	1.0	.0	.0	.0	.0	16.1	2.1	.0	1.2	.0	.4	.0	80.2		
VAR	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0		
CALM	3.7	.0	.0	.0	.0	.0	.0	3.7	.0	.0	.0	.0	.0	.0	96.3		
TOT PCT	5.0	7.3	1.1	.0	.0	.0	.2	13.6	2.0	.8	1.3	*	.5	.0	81.8		
TOT OBS:	2224																

TABLE 2

PERCENT FREQUENCY OF WEATHER OCCURRENCE BY HOUR

HOUR (GMT)	PRECIPITATION TYPE							OTHER WEATHER PHENOMENA									
	RAIN	RAIN SHWR	DRZL	FRZG PCPN	SNOW	OTHER FRZN PCPN	HAIL	PCPN AT DB TIME	PCPN PAST HOUR	THOR LTNG	FOG PCPN	FOG WD PCPN PAST HR	SMOKE HAZE	SPRAY BLWG DUST	NO SIG WEA		
0000	4.1	5.5	.8	.0	.0	.0	.4	10.7	1.1	.0	1.5	.0	.9	.0	85.7		
0600	5.8	8.0	1.2	.0	.0	.0	.1	15.2	1.9	.3	1.5	.1	.4	.0	80.8		
1200	4.1	6.1	1.0	.0	.0	.0	.0	11.2	1.6	1.8	1.2	.0	.4	.0	83.9		
1800	5.1	8.5	1.3	.0	.0	.0	.2	15.1	3.0	1.1	1.6	.0	.3	.0	78.9		
TOT PCT	4.9	7.2	1.1	.0	.0	.0	.2	13.3	2.0	.8	1.5	*	.5	.0	82.1		
TOT OBS:	2304																

TABLE 3

PERCENTAGE FREQUENCY OF WIND DIRECTION BY SPEED AND BY HOUR

WIND DIR	WIND SPEED (KNOTS)							TOTAL OBS	PCT FREQ	MEAN SPD	HOUR (GMT)							
	0-3	4-10	11-21	22-33	34-47	48+					00	03	06	09	12	15	18	21
N	1.0	6.8	3.8	.6	.1	.0		12.4	10.4		15.5	12.5	9.1	8.3	14.7	13.8	13.7	14.2
NE	.9	6.0	2.9	.5	*	.0		10.3	9.9		6.1	9.9	12.3	11.0	10.5	9.7	10.4	10.8
E	.6	4.1	2.3	.9	.1	.0		8.0	11.6		4.2	7.5	8.7	10.5	4.0	10.8	6.4	9.9
SE	.4	2.7	1.1	.4	.2	.0		4.6	11.1		1.3	5.5	5.5	7.1	1.6	6.1	3.3	4.5
S	.7	3.1	2.4	.9	.3	.1		7.4	13.2		6.3	6.0	7.6	9.4	7.7	7.9	9.1	4.8
SW	.8	5.3	7.3	3.5	1.2	.1		18.2	16.5		16.9	19.1	20.7	19.4	19.0	15.9	17.5	17.5
W	.8	5.9	8.9	5.1	1.4	.1		22.3	17.1		32.1	22.3	23.7	19.8	26.1	19.2	19.9	19.1
NW	1.0	5.9	5.8	1.9	.4	.0		14.9	13.4		16.9	14.5	10.8	12.2	13.4	14.7	19.1	18.0
VAR	.0	.0	.0	.0	.0	.0		.0	.0		.0	.0	.0	.0	.0	.0	.0	.0
CALM	2.0							2.0	.0		.7	2.9	1.6	2.3	3.1	1.9	2.4	1.1
TOT OBS	266	1297	1121	448	117	8	3257		13.5		280	522	548	390	261	378	507	371
TOT PCT	8.2	39.8	34.4	13.8	3.6	.2		100.0			100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0

TABLE 3A

WIND DIR	WIND SPEED (KNOTS)					TOTAL OBS	PCT FREQ	MEAN SPD	HOUR (GMT)			
	0-6	7-16	17-27	28-40	41+				00	06	12	18
N	3.8	6.6	1.7	.3	*		12.4	10.4	13.5	8.8	14.1	13.9
NE	3.3	5.6	1.3	.1	.0		10.3	9.9	8.5	11.8	10.0	10.5
E	2.4	3.4	1.9	.2	*		8.0	11.6	6.3	9.4	8.1	7.9
SE	1.7	1.9	.8	.1	.1		4.6	11.1	4.0	6.1	4.3	3.8
S	2.1	2.9	1.6	.7	.1		7.4	13.2	6.1	8.3	7.8	7.3
SW	3.0	6.4	6.1	2.2	.4		18.2	16.5	18.3	20.2	17.1	16.6
W	3.3	7.3	8.0	3.4	.3		22.3	17.1	25.7	22.1	22.0	19.5
NW	3.3	6.3	4.1	1.1	.1		14.9	13.4	15.3	11.4	14.2	18.6
VAR	.0	.0	.0	.0	.0		.0	.0	.0	.0	.0	.0
CALM	2.0						2.0	.0	2.1	1.9	2.3	1.8
TOT OBS	810	1318	829	267	93	3257		13.5	802	938	639	878
TOT PCT	24.9	40.5	25.5	8.2	1.0		100.0		100.0	100.0	100.0	100.0

PERIOD: (PRIMARY) 1906-1972  
(OVER-ALL) 1855-1972

MAY

AREA 0009 MELBOURNE SE  
38.55 146.8E

TABLE 4

PERCENTAGE FREQUENCY OF WIND SPEED BY HOUR (GMT)

HOUR	CALM	1-3	4-10	WIND SPEED (KNOTS)			48+	MEAN	PCT FREQ	TOTAL OBS
				11-21	22-33	34-47				
00003	2.1	6.1	36.9	35.9	13.7	5.1	.1	14.0	100.0	802
06009	1.9	6.7	39.7	32.9	15.0	3.5	.2	13.5	100.0	938
12015	2.3	7.4	39.3	33.8	14.1	3.0	.2	13.2	100.0	639
18021	1.8	6.7	43.1	35.1	12.2	2.7	.5	13.2	100.0	878
TOT	66	200	1297	1121	448	117	8	13.5		3257
PCT	2.0	6.1	39.8	34.4	13.8	3.6	.2	100.0		

TABLE 5

PCT FREQ OF TOTAL CLOUD AMOUNT (EIGHTHS)  
BY WIND DIRECTION

WIND DIR	0-2	3-4	5-7	8 & OBS	TOTAL OBS	MEAN CLOUD COVER
N	4.9	1.1	5.3	2.9		4.5
NE	3.8	1.5	2.9	2.2		4.2
E	1.0	.2	1.5	1.4		5.4
SE	.4	.6	.8	.4		4.9
S	1.9	.9	2.8	2.1		5.1
SW	2.2	2.8	8.3	4.2		5.5
W	3.5	4.6	13.7	4.8		5.4
NW	4.2	2.4	5.8	2.9		4.6
VAR	.0	.0	.0	.0		.0
CALM	1.1	.4	.2	.2		2.8
TOT OBS	191	120	341	178	827	5.0
TOT PCT	23.1	14.5	41.2	21.2	100.0	

TABLE 6

PERCENTAGE FREQUENCY OF CEILING HEIGHTS (FT, NH >4/8)  
AND OCCURRENCE OF NH <5/8 BY WIND DIRECTION

000	150	300	600	1000	2000	3500	5000	6500	8000+	NH <5/8 ANY HGT	TOTAL OBS
149	299	599	999	1999	3499	4999	6499	7999			
.0	.0	.1	.6	1.4	.7	.4	.3	.1	.4	10.2	
.0	.0	.0	.2	1.3	1.0	.6	.2	.1	.3	6.8	
.1	.0	.1	.3	.8	.8	.4	.1	.0	.0	1.5	
.0	.0	*	.3	.2	.3	.0	.0	.0	.0	1.4	
.2	.0	.1	.5	2.3	1.2	.1	.2	.0	.0	3.1	
.4	*	.2	2.7	4.5	1.3	.8	.1	.1	*	7.3	
.0	.2	.8	3.1	5.6	2.1	.8	.3	.0	.2	13.3	
.0	.0	.0	1.5	2.3	1.3	.2	.3	.2	*	9.6	
.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
.0	.0	.0	.0	.1	.1	.0	.0	.0	.0	1.7	
.0	2	11	76	154	73	27	12	4	8	454	827
.7	.2	1.3	9.2	18.6	8.8	3.3	1.5	.5	1.0	54.9	100.0

TABLE 7

CUMULATIVE PCT FREQ OF SIMULTANEOUS OCCURRENCE  
OF CEILING HEIGHT (NH >4/8) AND VSBY (NM)

CEILING (FEET)	VSBY (NM)							
	>10	>5	>2	>1	>1/2	>1/4	>50YD	>0
* OR >A500	1.4	1.4	1.5	1.5	1.5	1.5	1.5	1.5
* OR >A000	2.4	2.8	2.9	2.9	2.9	2.9	2.9	2.9
* OR >A500	4.8	6.0	6.1	6.3	6.3	6.3	6.3	6.3
* OR >2000	12.1	14.6	14.9	15.0	15.0	15.0	15.0	15.0
* OR >1000	27.5	32.7	33.3	33.4	33.4	33.4	33.4	33.4
* OR >A00	33.4	41.2	42.3	42.5	42.5	42.5	42.6	42.6
* OR >300	33.5	41.9	43.6	43.8	43.8	43.8	43.9	43.9
* OR >150	33.6	42.0	43.9	44.0	44.0	44.0	44.1	44.1
* OR >0	34.1	42.8	44.7	44.8	44.8	44.8	44.9	44.9
TOTAL	289	363	379	380	380	380	381	381

TOTAL NUMBER OF OBS: 848

PCT FREQ NH <5/8: 55.1

TABLE 7A

PERCENTAGE FREQ OF LOW CLOUDS (EIGHTHS)

0	1	2	3	4	5	6	7	8	OBS	TOTAL OBS
11.3	11.9	11.6	9.9	8.2	8.3	10.6	11.2	16.9	.2	1020



PERIOD: (PRIMARY) 1906-1972  
(OVER-ALL) 1855-1972

MAY

AREA 0009 MELBOURNE SE  
38.55 146.8E

TABLE 8

PERCENT FREQ OF WIND DIRECTION VS OCCURRENCE OR NON-OCCURRENCE OF  
PRECIPITATION WITH VARYING VALUES OF VISIBILITY

VSBY (NM)		N	NE	E	SE	S	SW	W	NW	VAR	CALM	PCT	TOTAL OBS
<1/2	PCP	.0	.0	.0	.0	.0	*	.0	.0	.0	.0	*	
	NO PCP	*	*	.0	.0	.0	.0	.0	*	.0	.0	.1	
	TOT %	*	*	.0	.0	.0	*	.0	*	.0	.0	.1	
1/2<1	PCP	.0	.0	.0	.0	.1	.1	.2	.1	.0	.0	.5	
	NO PCP	.1	.0	.0	.0	.0	.1	.1	.2	.0	.0	.5	
	TOT %	.1	.0	.0	.0	.1	.3	.2	.2	.0	.0	1.0	
1<2	PCP	.0	.0	.0	.1	*	.0	*	*	.0	.0	.2	
	NO PCP	*	.1	*	.0	.0	.1	*	.0	.0	.0	.3	
	TOT %	*	.1	*	.1	*	.1	.1	*	.0	.0	.5	
2<5	PCP	.1	.0	.0	.0	*	.3	.4	*	.0	.0	.9	
	NO PCP	.1	.2	.1	*	.0	.1	.3	*	.0	.0	.7	
	TOT %	.2	.2	.1	*	*	.3	.7	.1	.0	.0	1.5	
5<10	PCP	.6	.9	.6	.4	.8	1.9	2.5	2.1	.0	*	9.9	
	NO PCP	3.4	3.3	3.0	2.0	2.7	6.4	7.2	4.8	.0	.1	33.0	
	TOT %	4.0	4.2	3.6	2.5	3.5	8.3	9.8	6.8	.0	.1	42.8	
10+	PCP	.4	.2	*	.0	.1	.6	.7	.2	.0	.0	2.2	
	NO PCP	8.1	6.1	3.5	1.8	3.9	7.6	12.1	7.6	.0	1.1	51.8	
	TOT %	8.5	6.3	3.6	1.8	3.9	8.2	12.8	7.8	.0	1.1	54.0	
TOT OBS													2220
TOT PCT													100.0

TABLE 9

PERCENT FREQ OF WIND DIRECTION VS WIND SPEED  
WITH VARYING VALUES OF VISIBILITY

VSBY (NM)	SPD KTS	N	NE	E	SE	S	SW	W	NW	VAR	CALM	PCT	TOTAL OBS
<1/2	0-3	.0	.0	.0	.0	.0	.0	.0	.0	.0	*	*	
	4-10	.1	.1	*	.0	.0	.0	.0	.0	.0	*	.2	
	11-21	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
	22+	.0	.0	.0	.0	.0	*	.0	.0	.0	.0	*	
	TOT %	.1	.1	*	.0	.0	*	.0	*	.0	*	.3	
1/2<1	0-3	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
	4-10	*	*	.0	.0	.1	*	*	.1	.0	.0	.3	
	11-21	.1	.0	.0	.0	.2	.0	.1	.1	.0	.0	.5	
	22+	.0	.0	.0	.0	.0	.0	.1	*	.0	.0	.1	
	TOT %	.1	.0	.0	.0	.1	.2	.2	.2	.0	.0	.9	
1<2	0-3	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
	4-10	.0	*	.0	*	*	.1	*	.0	.0	.0	.2	
	11-21	.0	*	*	*	*	*	*	*	.0	.0	.2	
	22+	*	.0	.0	.0	.0	*	.0	.0	.0	.0	.1	
	TOT %	*	.1	*	.1	*	.1	.1	*	.0	.0	.5	
2<5	0-3	.1	*	.0	.0	.0	.0	*	*	.0	.1	.2	
	4-10	*	.2	*	.0	.0	.1	.1	.0	.0	.0	.4	
	11-21	*	.0	.0	.0	.0	.1	.3	.1	.0	.0	.6	
	22+	*	.0	*	*	*	.2	.3	.1	.0	.0	.6	
	TOT %	.2	.2	.1	*	*	.4	.8	.1	.0	.1	1.8	
5<10	0-3	.2	.3	.2	.2	.5	.4	.1	.2	.0	.4	2.4	
	4-10	2.0	2.0	1.1	1.2	1.2	1.8	1.8	1.8	.0	.0	12.9	
	11-21	1.3	1.3	1.3	.7	.8	3.2	4.1	3.0	.0	.0	15.8	
	22+	.4	.2	.7	.2	.8	2.5	3.0	1.2	.0	.0	8.9	
	TOT %	3.8	3.8	3.4	2.2	3.2	7.9	9.1	6.3	.0	.4	40.1	
10+	0-3	.7	.7	.3	.2	.2	.5	.6	.6	.0	1.4	5.3	
	4-10	5.0	4.1	2.8	1.3	1.8	2.8	3.7	3.5	.0	.0	23.0	
	11-21	2.4	1.4	1.0	.4	1.5	4.1	5.2	2.8	.0	.0	18.8	
	22+	.3	.3	.3	.2	.3	1.5	3.3	1.0	.0	.0	7.3	
	TOT %	8.4	6.6	4.4	2.2	3.8	8.9	12.9	7.9	.0	1.4	56.4	
TOT OBS													2464
TOT PCT													100.0

MAY

PERIOD: (PRIMARY) 1906-1972  
(OVER-ALL) 1855-1972AREA 0009 MELBOURNE SE  
38.55 146.8E

TABLE 10

PERCENT FREQUENCY OF CEILING HEIGHTS (FEET, NH > 4/8) AND  
OCCURRENCE OF NH < 5/8 BY HOUR

HOUR (GMT)	000	150	300	600	1000	2000	3500	5000	6500	8000+	TOTAL	NH < 5/8 ANY HGT	TOTAL OBS
	149	299	599	999	1999	3499	4999	6499	7999				
00003	1.1	.0	.7	7.5	19.0	8.6	3.7	1.1	.7	1.5	44.0	56.0	268
06009	.4	.0	2.1	13.7	15.4	7.5	2.5	1.7	.8	.8	44.8	55.2	241
12015	.9	.4	.4	3.8	15.3	8.1	2.1	.9	.0	.9	32.8	67.2	235
18021	.6	.6	1.7	9.0	18.1	8.5	4.0	1.7	.0	.6	44.6	55.4	177
TOT	7	2	11	78	156	75	28	12	4	9	382	539	921
PCT	.8	.2	1.2	8.5	16.9	8.1	3.0	1.3	.4	1.0	41.5	58.5	100.0

TABLE 11

PERCENT FREQUENCY VSBY (NH) BY HOUR

HOUR (GMT)	<1/2	1/2<1	1<2	2<5	5<10	10+	TOTAL OBS
00003	.3	.9	1.0	1.2	31.0	65.6	575
06009	.3	.4	.3	2.8	47.2	49.0	745
12015	.2	1.7	.4	.7	33.4	63.6	539
18021	.3	1.0	.4	1.9	46.9	49.4	686
TOT	7	24	13	45	1032	1424	2545
PCT	.3	.9	.5	1.8	40.6	56.0	100.0

TABLE 12

CUMULATIVE PCT FREQ OF RANGES OF VSBY (NH) AND/OR  
CEILING HGT (FEET, NH > 4/8), BY HOUR

HOUR (GMT)	<150 <50YD	<600 <1	<1000 <5	1000+ AND 5+	NH < 5/8 AND 5+	TOTAL OBS
00003	1.2	2.5	11.9	37.7	50.4	244
06009	.4	2.7	19.3	29.5	51.1	223
12015	.9	1.8	6.9	28.6	64.5	217
18021	.6	3.0	13.4	34.8	51.8	164
TOT	7	21	109	277	462	848
PCT	.8	2.5	12.9	32.7	54.5	100.0

TABLE 13

PERCENT FREQUENCY OF RELATIVE HUMIDITY BY TEMP

TEMP F	0-29	30-39	40-49	50-59	60-69	70-79	80-89	90-100	TOTAL OBS	PCT FREQ
65/69	.0	.0	.2	.0	.6	1.5	1.2	.6	51	4.1
60/64	.0	.0	.2	.9	4.8	10.2	9.0	3.6	398	28.0
55/59	.0	.0	.7	1.4	8.5	20.0	16.6	5.4	650	52.0
50/54	.0	.0	.0	.1	3.1	5.0	4.7	1.7	183	14.6
45/49	.0	.0	.0	.0	.0	.0	.6	.2	9	.7
TOTAL	0	0	6	29	213	459	402	142	1251	100.0
PCT	.0	.0	.5	2.3	17.0	36.7	32.1	11.4		

TABLE 14

PERCENT FREQUENCY OF WIND DIRECTION BY TEMP

	N	NE	E	SE	S	SW	W	NW	VAR	CALM
1.6	1.0	.2	.0	.1	.3	.4	.4	.0	.1	
0.4	3.1	1.5	.7	1.6	2.2	5.8	4.7	.0	.6	
5.2	3.9	2.6	2.4	3.7	9.5	15.6	8.4	.0	.7	
.8	.5	.4	.7	2.8	4.3	3.9	1.1	.0	.1	
.0	.0	.0	.1	*	.1	.4	.1	.0	.0	
14.0	10.5	4.8	4.0	8.2	16.4	26.0	14.7	.0	1.4	

TABLE 15

MEANS, EXTREMES AND PERCENTILES OF TEMP (DEG F) BY HOUR

HOUR (GMT)	MAX	99%	95%	50%	5%	1%	MIN	MEAN	TOTAL OBS
00003	71	68	65	58	53	51	50	58.4	793
06009	69	67	64	58	53	51	46	58.3	954
12015	68	66	63	57	52	49	47	57.4	654
18021	69	64	62	57	52	49	45	56.8	885
TOT	71	66	64	58	52	50	45	57.8	3286

TABLE 16

PERCENT FREQUENCY OF RELATIVE HUMIDITY BY HOUR

HOUR (GMT)	0-29	30-59	60-69	70-79	80-89	90-100	MEAN	TOTAL OBS
00003	.0	2.5	21.1	37.0	28.9	10.6	77	322
06009	.0	5.0	17.6	37.2	31.1	9.1	77	363
12015	.0	1.7	16.8	39.9	29.2	12.4	78	291
18021	.0	1.3	11.9	33.3	38.5	15.1	81	312
TOT	0	35	218	474	411	150	78	1288

MAY

PERIOD: (PRIMARY) 190A-1972  
(OVER-ALL) 1855-1972

TABLE 17

AREA 0009 MELBOURNE SE  
38.55 146.8EPCT FREQ OF AIR TEMPERATURE (DEG F) AND THE OCCURRENCE OF FOG (WITHOUT PRECIPITATION)  
VS AIR-SEA TEMPERATURE DIFFERENCE (DEG F)

AIR-SEA TMP DIF	45 48	49 52	53 56	57 60	61 64	65 68	69 72	TOT	H FOG	WD FOG
11/13	.0	.0	.0	.0	*	*	.0	2	.0	.1
9/10	.0	.0	*	*	*	.0	*	4	.0	.2
7/8	.0	.0	.1	*	.2	.1	.0	10	.0	.5
6	.0	.0	.0	*	.0	.2	*	6	.0	.3
5	.0	.0	*	.5	.4	.1	.0	24	.0	1.2
4	.0	.0	.2	1.4	1.1	.5	.0	67	.1	3.2
3	.0	.1	.2	2.0	1.2	.5	.0	82	.0	4.1
2	.0	.0	.4	2.6	2.1	.4	.0	133	*	6.5
1	.0	.0	1.6	3.3	3.3	.3	.0	173	.1	8.4
0	.0	*	2.9	6.7	3.6	.4	.0	277	.1	13.6
-1	.0	.3	3.0	6.9	1.6	*	.0	239	.2	11.6
-2	.0	.2	4.9	8.2	1.4	*	.0	298	.4	14.4
-3	.0	.2	4.2	3.7	.7	*	.0	178	.1	8.7
-4	.0	.7	5.7	2.8	.3	.0	*	195	.1	9.5
-5	.0	.6	3.4	2.3	.1	.1	.0	132	.1	6.4
-6	.0	1.0	1.7	.5	*	.0	.0	68	.1	3.3
-7/-8	.0	1.0	2.1	.8	*	.0	.0	82	.0	4.1
-9/-10	.1	.2	1.0	.1	*	.0	.0	33	.0	1.6
-11/-13	*	.1	.3	.2	.0	.0	.0	14	.0	.7
-14/-16	.0	.1	*	.0	.0	.0	.0	3	.0	.1
TOTAL	4	98	650	855	350	60	3	2020	32	1988
PCT	.2	4.9	32.2	42.3	17.3	3.0	.1	100.0	1.6	98.4

PERIOD: (OVER-ALL) 1963-1977

TABLE 18

PCT FREQ OF WIND SPEED (KTS) AND DIRECTION VERSUS SEA HEIGHTS (FT)

HGT	1-3	4-10	11-21	22-33	34-47	48+	PCT	1-3	4-10	11-21	22-33	34-47	48+	PCT
<1	.4	.9	.2	.0	.0	.0	1.5	.6	.9	.2	.0	.0	.0	1.7
1-2	.7	4.0	.9	.0	.0	.0	5.7	*	3.2	.8	.0	.0	.0	4.0
3-4	.0	2.1	2.4	.2	.0	.0	4.7	.0	.8	1.2	.0	.0	.0	2.0
5-6	.0	.4	.8	.1	.0	.0	1.3	.0	.2	.8	.2	.2	.0	1.4
7	.0	.1	.6	.2	.0	.0	.9	.0	*	.0	.2	.0	.0	.2
8-9	.0	.0	.2	.0	.0	.0	.2	.0	.0	.0	.2	.0	.0	.2
10-11	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
12	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
13-16	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
17-19	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
20-22	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
23-25	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
26-32	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
33-40	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
41-48	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
49-60	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
61-70	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
71-86	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
87+	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
TOT PCT	1.1	7.6	5.1	.4	.0	.0	14.2	.7	5.1	3.0	.6	.2	.0	9.4

HGT	1-3	4-10	11-21	22-33	34-47	48+	PCT	1-3	4-10	11-21	22-33	34-47	48+	PCT
<1	.0	1.2	.0	.0	.0	.0	1.2	.3	.7	.0	.0	.0	.0	1.0
1-2	.2	.8	.4	.0	.0	.0	1.3	.0	.2	.0	.0	.0	.0	.2
3-4	.2	.0	.1	.0	.0	.0	.3	*	*	.3	.0	.0	.0	.4
5-6	.0	.0	.5	.3	.0	.0	.8	.0	.1	.0	.2	.0	.0	.2
7	.0	.0	.0	.6	.0	.0	.6	.0	.0	.2	.0	.0	.0	.2
8-9	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
10-11	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
12	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.2	.0	.0	.2
13-16	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
17-19	.0	.0	.0	.1	.0	.0	.1	.0	.0	.0	*	.0	.0	*
20-22	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
23-25	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
26-32	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
33-40	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
41-48	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
49-60	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
61-70	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
71-86	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
87+	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
TOT PCT	.3	2.0	1.0	.9	.0	.0	4.2	.3	.9	.5	.3	.0	.0	2.1

PERIOD: (OVER-ALL) 1963-1972

MAY

AREA 0009 MELBOURNE SE  
38.55 146.8E

TABLE 18 (CONT)

PCT FREQ OF WIND SPEED (KTS) AND DIRECTION VERSUS SEA HEIGHTS (FT)

HGT	S							PCT	SW							PCT
	1-3	4-10	11-21	22-33	34-47	48+			1-3	4-10	11-21	22-33	34-47	48+		
<1	.3	.8	.0	.0	.0	.0		1.0	.2	.3	.0	.0	.0	.0		.6
1-2	.2	.5	.0	.0	.0	.0		.7	.1	1.7	.8	.0	.0	.0		2.6
3-4	.1	1.0	.9	.0	.0	.0		2.0	.0	1.6	2.7	.5	.0	.0		4.8
5-6	.0	.2	1.5	.1	.0	.0		1.8	.0	.0	2.1	.8	.3	.0		3.3
7	.0	.0	.7	.3	.0	.0		.9	.0	.0	1.7	.8	*	.0		2.5
8-9	.0	.0	.0	.2	.0	.0		.2	.0	.0	.2	.4	*	.0		.6
10-11	.0	.0	.0	.0	.2	.0		.2	.0	.0	.0	.6	*	.0		.6
12	.0	.0	.0	.0	.0	.0		.0	.0	.0	.0	*	.2	.0		.2
13-16	.0	.0	.0	.0	.0	.0		.0	.0	.0	.0	.2	.2	.0		.3
17-19	.0	.0	.0	.0	.0	.0		.0	.0	.0	.0	.0	.2	.0		.2
20-22	.0	.0	.0	.0	.0	.0		.0	.0	.0	.0	.0	.0	.2		.2
23-25	.0	.0	.0	.0	.0	.0		.0	.0	.0	.0	.0	.0	.0		.0
26-32	.0	.0	.0	.0	.0	.0		.0	.0	.0	.0	.0	.0	.0		.0
33-40	.0	.0	.0	.0	.0	.0		.0	.0	.0	.0	.0	.0	.0		.0
41-48	.0	.0	.0	.0	.0	.0		.0	.0	.0	.0	.0	.0	.0		.0
49-60	.0	.0	.0	.0	.0	.0		.0	.0	.0	.0	.0	.0	.0		.0
61-70	.0	.0	.0	.0	.0	.0		.0	.0	.0	.0	.0	.0	.0		.0
71-86	.0	.0	.0	.0	.0	.0		.0	.0	.0	.0	.0	.0	.0		.0
87+	.0	.0	.0	.0	.0	.0		.0	.0	.0	.0	.0	.0	.0		.0
TOT PCT	.6	2.4	3.1	.5	.2	.0		6.8	.3	3.6	7.5	3.3	.9	.2		15.8

HGT	W							PCT	NW							TOTAL PCT
	1-3	4-10	11-21	22-33	34-47	48+			1-3	4-10	11-21	22-33	34-47	48+		
<1	1.0	1.1	.3	.0	.0	.0		2.5	.2	.8	.0	.0	.0	.0		.9
1-2	.3	2.5	1.9	.0	.0	.0		4.7	.2	3.7	1.4	.0	.0	.0		5.3
3-4	.0	1.4	4.6	.7	.0	.0		6.6	.0	2.2	2.5	.5	.0	.0		5.2
5-6	.0	.4	2.9	1.1	.5	.0		4.9	.0	.2	2.2	.3	.2	.0		2.9
7	.0	.0	1.4	3.3	.5	.0		5.3	.0	.0	1.2	.6	*	.0		1.9
8-9	.0	.0	.5	1.4	.1	.0		2.0	.0	.0	.0	.3	.0	.0		.3
10-11	.0	.0	.0	1.4	.2	.0		1.7	.0	.0	.0	.1	.2	.0		.3
12	.0	.0	.0	.4	.0	.0		.4	.0	.0	.0	.2	.0	.0		.2
13-16	.0	.0	.0	.3	.7	.0		1.0	.0	.0	.0	.0	*	.0		*
17-19	.0	.0	.0	.2	.2	.0		.3	.0	.0	.0	.0	.0	.0		.0
20-22	.0	.0	.0	.0	.0	.0		.0	.0	.0	.0	.0	.0	.0		.0
23-25	.0	.0	.0	.0	.0	.0		.0	.0	.0	.0	.0	.0	.0		.0
26-32	.0	.0	.0	.0	.0	.0		.0	.0	.0	.0	.0	.0	.0		.0
33-40	.0	.0	.0	.0	.0	.0		.0	.0	.0	.0	.0	.0	.0		.0
41-48	.0	.0	.0	.0	.0	.0		.0	.0	.0	.0	.0	.0	.0		.0
49-60	.0	.0	.0	.0	.0	.0		.0	.0	.0	.0	.0	.0	.0		.0
61-70	.0	.0	.0	.0	.0	.0		.0	.0	.0	.0	.0	.0	.0		.0
71-86	.0	.0	.0	.0	.0	.0		.0	.0	.0	.0	.0	.0	.0		.0
87+	.0	.0	.0	.0	.0	.0		.0	.0	.0	.0	.0	.0	.0		.0
TOT PCT	1.3	5.4	11.5	8.8	2.2	.0		29.2	.4	6.9	7.2	2.1	.4	.0		98.8

WIND SPEED (KTS) VS SEA HEIGHT (FT)

HGT	0-3	4-10	11-21	22-33	34-47	48+	PCT	TOT OBS
<1	5.1	6.7	.6	.0	.0	.0	12.4	
1-2	2.1	16.3	6.1	.0	.0	.0	24.5	
3-4	.3	9.0	14.5	1.8	.0	.0	25.6	
5-6	.0	1.5	10.6	3.1	1.0	.0	16.3	
7	.0	.1	5.7	5.8	.6	.0	12.3	
8-9	.0	.0	.7	2.4	.1	.0	3.3	
10-11	.0	.0	.0	2.1	.6	.0	2.7	
12	.0	.0	.0	.7	.1	.0	.9	
13-16	.0	.0	.0	.4	.9	.0	1.3	
17-19	.0	.0	.0	.3	.3	.0	.6	
20-22	.0	.0	.0	.0	.0	.1	.1	
23-25	.0	.0	.0	.0	.0	.0	.0	
26-32	.0	.0	.0	.0	.0	.0	.0	
33-40	.0	.0	.0	.0	.0	.0	.0	
41-48	.0	.0	.0	.0	.0	.0	.0	
49-60	.0	.0	.0	.0	.0	.0	.0	
61-70	.0	.0	.0	.0	.0	.0	.0	
71-86	.0	.0	.0	.0	.0	.0	.0	
87+	.0	.0	.0	.0	.0	.0	.0	
TOT PCT	7.5	33.6	38.3	16.7	3.7	.1	100.0	669

PERIOD: (OVER-ALL) 1949-1972

TABLE 19

PERCENT FREQUENCY OF WAVE HEIGHT (FT) VS WAVE PERIOD (SECONDS)

PERIOD (SEC)	<1	1-2	3-4	5-6	7	8-9	10-11	12	13-16	17-19	20-22	23-25	26-32	33-40	41-48	49-60	61-70	71-86	87+	TOTAL	MEAN HGT
<6	2.3	12.3	11.4	7.3	2.8	.5	.7	.0	.1	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	311
6-7	.0	1.8	5.7	9.3	6.6	2.0	2.3	1.1	.4	.1	.2	.0	.0	.0	.0	.0	.0	.0	.0	.0	245
8-9	.0	.0	1.9	3.9	2.7	2.5	1.7	.7	.8	.1	.2	.2	.0	.0	.0	.0	.0	.0	.0	.0	123
10-11	.0	.1	.5	.5	1.3	1.4	.8	.6	.8	.0	.2	.1	.0	.0	.0	.0	.0	.0	.0	.0	54
12-13	.0	.0	.5	.1	.2	.0	.2	.0	.4	.1	.1	.0	.1	.0	.0	.0	.0	.0	.0	.0	15
>13	.0	.0	.0	.1	.0	.0	.1	.0	.2	.0	.2	.1	.1	.0	.0	.0	.0	.0	.0	.0	8
INDET	2.5	1.3	1.3	1.2	.6	.5	.2	.4	.1	.2	.2	.1	.1	.0	.0	.0	.0	.0	.0	.0	74
TOTAL	4.0	12.9	17.7	18.6	11.8	5.8	5.1	2.3	2.4	.5	1.1	.5	.3	.0	.0	.0	.0	.0	.0	.0	830
PCT	4.8	15.5	21.3	22.4	14.2	7.0	6.1	2.8	2.9	.6	1.3	.6	.4	.0	.0	.0	.0	.0	.0	.0	100.0

PERIOD: (PRIMARY) 1910-1972  
(OVER-ALL) 1859-1972

JUNE

AREA 0009 MELBOURNE SE  
38.45 146.9E

TABLE 1

PERCENT FREQUENCY OF WEATHER OCCURRENCE BY WIND DIRECTION

WIND DIR	PRECIPITATION TYPE							OTHER WEATHER PHENOMENA							
	RAIN	RAIN SHWR	DRZL	FRZG PCPN	SNOW	OTHER FRZN PCPN	HAIL	PCPN AT DB TIME	PCPN PAST HOUR	THOR LTNG	FOG	FOG WD PCPN	SMOKE HAZE	SPRAY BLWG	NO SIG WEA
N	4.9	4.1	.7	.0	.0	.0	.0	9.7	1.7	1.3	1.7	.0	1.9	.0	83.6
NE	4.5	5.6	1.8	.0	.0	.0	.0	11.8	3.2	.1	2.3	.0	.3	.0	82.2
E	5.1	5.0	2.1	.0	.0	.0	.0	12.1	1.7	.0	3.8	.0	.3	.0	82.1
SE	5.2	11.1	4.3	.0	.0	.0	.0	20.7	2.4	.0	.0	.0	1.7	.0	75.2
S	6.8	8.6	.9	.0	.0	.0	.5	16.7	4.5	.0	3.6	.0	.9	.0	74.3
SW	3.1	12.3	2.4	.0	.0	.0	.3	17.8	2.3	.2	1.7	.0	.3	.0	77.8
W	3.2	14.3	1.6	.0	.0	.0	.6	19.7	2.9	1.9	3.2	.0	.0	.0	73.1
NW	3.4	6.2	1.5	.0	.0	.0	.3	11.5	2.0	1.8	2.1	.0	.6	.0	82.6
VAR	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
CALM	.0	.0	4.0	.0	.0	.0	.0	4.0	.0	.0	8.0	4.0	.0	.0	84.0
TOT PCT	4.0	9.0	1.9	.0	.0	.0	.3	15.1	2.5	.9	2.4	.1	.6	.0	78.7
TOT OBS:	1830														

TABLE 2

PERCENT FREQUENCY OF WEATHER OCCURRENCE BY HOUR

HOUR (GMT)	PRECIPITATION TYPE							OTHER WEATHER PHENOMENA							
	RAIN	RAIN SHWR	DRZL	FRZG PCPN	SNOW	OTHER FRZN PCPN	HAIL	PCPN AT DB TIME	PCPN PAST HOUR	THOR LTNG	FOG	FOG WD PCPN	SMOKE HAZE	SPRAY BLWG	NO SIG WEA
0000	4.1	8.3	1.8	.0	.0	.0	.2	14.3	3.0	.2	1.8	.0	.7	.0	80.0
0600	3.8	8.4	1.3	.0	.0	.0	.0	13.4	2.5	.9	2.9	.2	1.4	.0	79.1
1200	3.6	10.1	2.3	.0	.0	.0	.3	16.4	1.6	2.1	2.1	.0	.5	.0	77.9
1800	4.5	9.3	2.5	.0	.0	.0	.6	16.9	2.3	.8	2.9	.0	.0	.0	77.3
TOT PCT	4.0	9.0	2.0	.0	.0	.0	.3	15.2	2.4	1.0	2.5	.1	.7	.0	78.6
TOT OBS:	1894														

TABLE 3

PERCENTAGE FREQUENCY OF WIND DIRECTION BY SPEED AND BY HOUR

WIND DIR	WIND SPEED (KNOTS)							TOTAL OBS	PCT FREQ	MEAN SPD	HOUR (GMT)							
	0-3	4-10	11-21	22-33	34-47	48+					00	03	06	09	12	15	18	21
N	1.1	6.2	3.3	1.0	.1	.0		11.7	10.8		12.4	14.6	9.5	11.3	10.5	13.6	10.7	10.7
NE	1.2	5.0	3.5	.7	.0	*		10.4	10.5		9.0	9.8	11.7	11.7	8.1	10.0	9.9	11.4
E	.8	4.3	2.9	1.0	.1	.0		9.1	11.4		5.2	7.0	8.3	10.5	10.7	11.5	10.3	9.2
SE	.6	2.9	2.4	.5	.3	.1		6.9	13.3		9.0	4.4	6.7	7.8	5.2	7.8	7.3	7.7
S	.5	2.5	1.7	.9	.6	.1		6.2	15.3		3.5	5.5	6.9	5.8	5.2	6.5	7.6	6.8
SW	.8	4.5	5.8	4.0	1.3	.2		16.6	17.5		14.4	17.1	19.2	17.5	16.1	17.1	14.8	15.1
W	.8	5.6	7.9	4.5	1.3	.1		20.3	16.9		27.5	23.2	20.6	19.0	20.1	17.1	18.5	18.4
NW	1.2	6.7	5.7	2.8	.4	.1		16.8	13.7		17.5	17.4	14.5	14.0	21.1	14.6	18.9	19.3
VAR	.0	.0	.0	.0	.0	.0		.0	.0		.0	.0	.0	.0	.0	.0	.0	.0
CALM	2.0							2.0	.0		1.4	1.1	2.6	2.4	3.0	1.8	2.1	1.7
TOT OBS	258	1073	945	437	115	17	2842		13.9		208	476	460	372	197	339	431	359
TOT PCT	9.0	37.8	33.3	15.4	4.0	.6		100.0			100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0

TABLE 3A

WIND DIR	WIND SPEED (KNOTS)					41+	TOTAL OBS	PCT FREQ	MEAN SPD	HOUR (GMT)			
	0-6	7-16	17-27	28-40	00 03					06 09	12 15	18 21	
N	3.7	5.6	2.0	.4	*		11.7	10.8	13.9	10.3	12.5	10.7	
NE	3.5	5.1	1.6	.2	*		10.4	10.5	9.5	11.7	9.3	10.6	
E	2.7	4.3	1.7	.4	.0		9.1	11.4	6.5	9.3	11.2	9.8	
SE	1.8	3.4	1.0	.2	.4		6.9	13.3	5.8	7.2	6.9	7.4	
S	1.5	2.5	1.2	.8	.2		6.2	15.3	4.9	6.4	6.0	7.2	
SW	2.8	5.4	5.4	2.8	.4		16.6	17.5	16.3	18.4	16.7	14.9	
W	3.4	7.1	6.7	2.5	.7		20.3	16.9	24.5	19.9	18.2	18.4	
NW	4.0	7.3	3.9	1.5	.2		16.8	13.7	17.4	14.3	17.0	18.9	
VAR		.0	.0	.0	.0		.0	.0	.0	.0	.0	.0	
CALM	2.0						2.0	.0	1.2	2.5	2.2	1.9	
TOT OBS	719	1155	666	249	53	2842		13.9	684	832	536	790	
TOT PCT	25.3	40.6	23.4	8.8	1.9		100.0		100.0	100.0	100.0	100.0	



PERIOD: (PRIMARY) 1910-1972  
(OVER-ALL) 1859-1972

JUNE

AREA 0009 MELBOURNE SE  
38.45 146.9E

TABLE 4

PERCENTAGE FREQUENCY OF WIND SPEED BY HOUR (GMT)

HOUR	CALM	WIND SPEED (KNOTS)						MEAN	PCT FREQ	TOTAL OBS
		1-3	4-10	11-21	22-33	34-47	48+			
00003	1.2	7.3	36.4	36.0	15.5	3.1	.0	13.8	100.0	684
06009	2.5	7.1	37.4	32.1	16.0	4.4	.5	13.9	100.0	832
12015	2.2	5.4	39.0	34.3	14.4	4.3	.4	13.9	100.0	536
18021	1.9	7.7	38.5	31.4	15.3	4.3	.9	14.0	100.0	790
TOT	56	199	1073	945	437	115	17	13.9		2842
PCT	2.0	7.0	37.8	33.3	15.4	4.0	.6	100.0		

TABLE 5

PCT FREQ OF TOTAL CLOUD AMOUNT (EIGHTHS)  
BY WIND DIRECTION

WIND DIR	0-2	3-4	5-7	8 & 10	TOTAL OBS	MEAN CLOUD COVER
N	3.7	1.3	3.7	1.4		4.2
NE	2.3	1.4	3.8	1.4		4.7
E	2.7	1.3	2.7	1.4		4.2
SE	1.3	1.2	2.9	1.8		5.4
S	.4	1.5	2.2	1.4		5.5
SW	2.7	3.6	6.2	3.2		5.0
W	6.1	3.3	9.1	3.8		4.7
NW	3.4	2.7	7.9	5.1		5.4
VAR	.0	.0	.0	.0		.0
CALM	1.9	.5	.3	.2		1.7
TOT OBS	156	107	248	128	639	4.8
TOT PCT	24.4	16.7	38.8	20.0	100.0	

TABLE 6

PERCENTAGE FREQUENCY OF CEILING HEIGHTS (FT, NH >4/8)  
AND OCCURRENCE OF NH <5/8 BY WIND DIRECTION

	000	150	300	600	1000	2000	3500	5000	6500	8000+	NH <5/8	TOTAL
	149	299	599	999	1999	3499	4999	6499	7999		ANY HGT	OBS
N	.0	.0	.0	.3	1.2	.7	.3	.1	.0	.4	7.4	
NE	.0	.0	.2	.3	1.5	.4	.3	.0	.0	.0	6.2	
E	.0	.0	.0	.7	.7	.4	.2	.4	.0	.0	5.7	
SE	.0	.2	.5	.6	1.3	.4	.0	.0	.0	.0	4.2	
S	.0	.0	.2	1.1	.7	.7	.3	.1	.0	.0	2.5	
SW	.0	.0	.3	1.2	3.1	2.2	.4	.1	.0	.0	8.4	
W	.0	.0	.2	2.5	4.6	1.8	1.1	.1	.1	.2	11.7	
NW	.0	.0	.2	2.1	4.1	1.4	1.2	.3	.2	.3	9.4	
VAR	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
CALM	.0	.0	.0	.0	.2	.0	.0	.0	.2	.0	2.5	
TOT OBS	0	1	9	56	112	51	24	7	3	6	370	639
TOT PCT	.0	.2	1.4	8.8	17.5	8.0	3.8	1.1	.5	.9	57.9	100.0

TABLE 7

CUMULATIVE PCT FREQ OF SIMULTANEOUS OCCURRENCE  
OF CEILING HEIGHT (NH >4/8) AND VSBY (NM)

CEILING (FEET)	VSBY (NM)							
	>10	>5	>2	>1	>1/2	>1/4	>50YD	>0
>6500	1.2	1.2	1.4	1.4	1.4	1.4	1.4	1.4
>5000	2.1	2.1	2.3	2.4	2.4	2.4	2.4	2.4
>3500	5.8	5.9	6.1	6.2	6.2	6.2	6.2	6.2
>2000	12.8	13.7	13.9	14.0	14.0	14.0	14.0	14.0
>1000	27.5	30.9	31.5	31.8	31.8	31.8	31.8	31.8
>600	34.4	39.0	40.0	40.3	40.3	40.3	40.3	40.3
>300	35.0	40.3	41.4	41.7	41.7	41.7	41.7	41.7
>150	35.0	40.3	41.6	41.9	41.9	41.9	41.9	41.9
>0	35.0	40.3	41.6	41.9	41.9	41.9	41.9	41.9
TOTAL	230	265	273	275	275	275	275	275

TOTAL NUMBER OF OBS: 657

PCT FREQ NH <5/8: 58.1

TABLE 7A

PERCENTAGE FREQ OF LOW CLOUDS (EIGHTHS)

	0	1	2	3	4	5	6	7	8	OBS	TOTAL
											OBS
	10.6	12.6	11.0	12.5	10.0	7.7	10.0	9.3	16.3	.0	767

AREA 0009 MELBOURNE SE  
38.45 146.9E

PERCENT FREQ OF WIND DIRECTION VS OCCURRENCE OR NON-OCCURRENCE OF  
PRECIPITATION WITH VARYING VALUES OF VISIBILITY

VSBY (NM)		N	NE	E	SE	S	SW	W	NW	VAR	CALM	PCT	TOTAL OBS
<1/2	PCP	.0	.0	.0	.0	.0	.0	.1	.0	.0	.0	.1	
	NO PCP	*	*	.0	.0	.0	.1	.0	*	.0	.1	.2	
	TOT %	*	*	.0	.0	.0	.1	.1	.0	.0	.1	.3	
1/2<1	PCP	*	*	.0	.1	.1	*	.1	.0	.0	.0	.3	
	NO PCP	.1	.2	.2	.0	.0	.5	*	*	.0	.0	.9	
	TOT %	.1	.2	.2	.1	.1	*	.5	*	.0	.0	1.2	
1<2	PCP	.0	.0	.0	.1	.1	*	.1	*	.0	.0	.2	
	NO PCP	.0	*	.1	.1	.0	.1	.0	.1	.0	.0	.3	
	TOT %	.0	*	.1	.1	.1	.1	.1	.1	.0	.0	.5	
2<5	PCP	.0	.0	.1	.2	.1	.0	.1	.0	.0	.0	.4	
	NO PCP	.0	.1	.1	.2	.2	.3	.4	.2	.0	.0	1.4	
	TOT %	.0	.1	.1	.4	.3	.3	.5	.2	.0	.0	1.9	
5<10	PCP	.8	.7	.6	.8	.6	2.4	3.5	1.5	.0	.1	11.0	
	NO PCP	4.0	3.7	2.4	1.6	2.3	6.0	5.6	5.4	.0	.1	30.1	
	TOT %	4.9	2.4	3.0	2.3	2.9	8.4	9.1	6.9	.0	.2	41.1	
10+*	PCP	.7	.4	.3	.2	.7	.8	.5	.5	.0	.0	3.1	
	NO PCP	6.0	5.2	4.2	3.2	2.6	8.4	10.8	10.3	.0	1.1	52.0	
	TOT %	6.2	5.6	4.6	3.4	2.8	9.2	11.4	10.8	.0	1.1	55.1	
TOT OBS													
TOT PCT		11.2	9.3	8.0	6.3	6.1	18.1	21.7	18.0	.0	1.4	100.0	1830

PERCENT FREQ OF WIND DIRECTION VS WIND SPEED  
WITH VARYING VALUES OF VISIBILITY

VSRY (NM)	SPD KTS	N	NE	E	SE	S	SW	W	NW	VAR	CALM	PCT	TOTAL DRS
<1/2	0-3	.0	.0	.0	.0	.0	.0	.0	.0	.0	.1	.1	
	4-10	*	*	.0	.0	.0	.0	.0	.0	.0		*	
	11-21	.0	.0	.0	.0	.0	.0	.0	.0	.0		*	
	22+	.0	.0	.0	.0	.0	.0	.0	.0	.0		.0	
	TOT %	*	*	.0	.0		*	*	.0	.0	.1	.2	
1/2<1	0-3	*	*	.0	.0	.0	.0	.0	.0	.0	.0	*	
	4-10	*	.1	.1	.0	.0	.1	.0	.0	.0		.3	
	11-21	*	*	.0	.0	*	.4	*	*	.0		.5	
	22+	.0	.0	*	*	.0	.0	.0	.0	.0		.2	
	TOT %	.1	.2	.2	*	*	.0	.5	*	.0	.0	1.0	
1<2	0-3	.0	.0	*	.0	.0	.0	*	*	.0	.0	.1	
	4-10	.0	*	*	*	.0	*	.0	.0	.0		.1	
	11-21	*	.0	*	.0	.0	.1	.1	*	.0		.2	
	22+	*	.0	.0	*	*	.0	*	*	.0		.2	
	TOT %	*	*	.1	.1	*	.1	.1	.1	.0	.0	.7	
2<5	0-3	.0	.0	.0	*	.0	.0	*	*	.0	.0	.1	
	4-10	.0	.0	.2	.1	*	.1	.2	.1	.0		.6	
	11-21	.1	.1	.2	.1	.2	.2	.3	.1	.0		1.2	
	22+	.0	.0	.0	.2	.2	.2	.3	.1	.0		1.0	
	TOT %	.1	.1	.3	.4	.4	.4	.8	.3	.0	.0	2.9	
5<10	0-3	.4	.3	.5	.3	.5	.4	.3	.4	.0	.2	3.2	
	4-10	2.0	1.5	1.2	.6	.5	1.8	1.6	2.2	.0		11.4	
	11-21	1.4	.8	.7	.9	.7	2.5	2.7	1.8	.0		11.6	
	22+	.6	.3	.2	.3	.9	2.9	3.5	1.6	.0		10.3	
	TOT %	4.4	2.9	2.6	2.1	2.6	7.6	8.1	6.1	.0	.2	36.5	
10+	0-3	.7	.8	.4	.3	.1	.5	.5	.7	.0	1.4	5.5	
	4-10	3.5	3.2	2.9	2.1	1.8	2.9	3.7	4.3	.0		24.4	
	11-21	1.7	2.2	1.9	1.5	.8	3.6	5.0	4.5	.0		21.2	
	22+	.4	.1	.1	.3	.3	2.5	2.2	1.6	.0		7.6	
	TOT %	6.4	6.3	5.4	4.2	3.1	9.5	11.3	11.0	.0	1.4	58.6	
TOT DRS													
TOT PCT		11.0	9.5	8.6	6.8	6.2	17.7	20.8	17.6	.0	1.7	100.0	2145

JUNE

PERIOD: (PRIMARY) 1910-1972  
(OVER-ALL) 1859-1972AREA 0009 MELBOURNE SE  
38.45 146.9E

TABLE 10

PERCENT FREQUENCY OF CEILING HEIGHTS (FEET, NH >4/8) AND  
OCCURRENCE OF NH <5/8 BY HOUR

HOURL (GMT)	000 149	150 299	300 599	600 999	1000 1999	2000 3499	3500 4999	5000 6499	6500 7999	8000+	TOTAL	NH <5/8 ANY HGT	TOTAL OBS
00003	.0	.0	1.0	8.5	19.0	8.5	5.5	1.0	.0	.5	44.0	56.0	200
06009	.0	.5	2.1	7.9	17.3	7.3	3.1	.5	.0	.0	38.7	61.3	191
12015	.0	.0	1.7	7.8	13.4	7.3	1.7	1.7	.0	2.2	35.8	64.2	179
18021	.0	.0	.0	7.1	15.7	5.0	3.6	.7	2.1	.7	35.0	65.0	140
TOT	0	1	9	56	117	81	25	7	3	6	275	435	710
PCT	.0	.1	1.3	7.9	16.5	7.2	3.5	1.0	.4	.8	38.7	61.3	100.0

TABLE 11

PERCENT FREQUENCY VSBY (NM) BY HOUR

HOURL (GMT)	<1/2	1/2<1	1<2	2<5	5<10	10+	TOTAL OBS
00003	.2	.4	.0	3.3	29.5	66.6	485
06009	.3	1.7	.8	2.7	41.0	53.6	664
12015	.2	.9	.9	1.8	31.7	64.5	445
18021	.5	1.0	.8	3.4	41.3	53.0	615
TOT	7	23	14	63	810	1292	2209
PCT	.3	1.0	.6	2.9	36.7	58.5	100.0

TABLE 12

CUMULATIVE PCT FREQ OF RANGES OF VSBY (NM) AND/OR  
CEILING HGT (FEET, NH >4/8), BY HOUR

HOURL (GMT)	<150 <50VD	<600 <1	<1000 <5	1000+ AND 5+	NH <5/8 AND 5+	TOTAL OBS
00003	.0	1.1	11.7	35.6	52.7	188
06009	.0	2.9	12.0	30.3	57.7	175
12015	.0	1.8	11.5	27.3	61.2	165
18021	.0	.0	8.5	29.5	62.0	129
TOT	0	10	73	203	381	657
PCT	.0	1.5	11.1	30.9	58.0	100.0

TABLE 13

PERCENT FREQUENCY OF RELATIVE HUMIDITY BY TEMP

TEMP F	0-29	30-39	40-49	50-59	60-69	70-79	80-89	90-100	TOTAL OBS	PCT FREQ
65/69	.0	.0	.0	.0	.0	.1	.1	.0	2	.2
60/64	.0	.0	.0	.3	1.2	1.8	2.5	.8	73	6.6
55/59	.0	.0	.1	1.7	9.1	18.3	16.6	5.1	565	50.9
50/54	.0	.0	.0	1.5	8.0	9.2	13.6	6.0	425	38.3
45/49	.0	.0	.0	.0	.1	.8	1.6	1.0	39	3.5
40/44	.0	.0	.0	.0	.0	.0	.2	.3	5	.5
TOTAL	0	0	1	39	204	335	384	146	1109	100.0
PCT	.0	.0	.1	3.5	18.4	30.2	34.6	13.2		

TABLE 14

PERCENT FREQUENCY OF WIND DIRECTION BY TEMP

N	NE	E	SE	S	SW	W	NW	VAR	CALM
.0	.1	.0	.0	.0	.1	.0	.0	.0	.0
1.4	1.8	.3	.3	.1	.7	.6	1.3	.0	.2
5.5	5.0	5.7	4.0	2.2	6.5	10.1	10.9	.0	1.0
3.1	3.4	2.3	2.1	3.1	8.8	9.2	5.9	.0	.5
.5	.4	.2	.4	.2	.7	.3	.8	.0	.1
.1	.1	.1	.0	.0	.0	.1	.1	.0	.0
10.6	10.8	8.5	6.8	5.5	16.8	20.3	19.0	.0	1.7

TABLE 15

MEANS, EXTREMES AND PERCENTILES OF TEMP (DEG F) BY HOUR

HOURL (GMT)	MAX	99%	95%	50%	5%	1%	MIN	MEAN	TOTAL OBS
00003	70	65	61	55	50	47	45	55.6	671
06009	67	63	61	55	50	47	43	55.5	842
12015	64	61	59	55	50	46	45	54.5	545
18021	65	61	58	54	49	45	41	53.9	801
TOT	70	63	60	55	50	46	41	54.9	2859

TABLE 16

PERCENT FREQUENCY OF RELATIVE HUMIDITY BY HOUR

HOURL (GMT)	0-29	30-59	60-69	70-79	80-89	90-100	MEAN	TOTAL OBS
00003	.0	5.0	16.7	29.9	33.1	15.3	78	281
06009	.0	4.3	23.7	26.1	36.5	9.4	77	329
12015	.0	3.0	17.7	34.6	33.8	11.0	78	237
18021	.0	2.0	13.5	30.7	35.8	17.9	80	296
TOT	0	41	207	343	399	153	78	1143

JUNE

PERIOD: (PRIMARY) 1910-1972  
(OVER-ALL) 1859-1972

TABLE 17

AREA 0009 MELBOURNE SE  
38.45 146.9EPCT FREQ OF AIR TEMPERATURE (DEG F) AND THE OCCURRENCE OF FOG (WITHOUT PRECIPITATION)  
VS AIR-SEA TEMPERATURE DIFFERENCE (DEG F)

AIR-SEA TMP DIF	41 44	45 48	49 52	53 56	57 60	61 64	65 68	69 72	TOT	W FOG	WD FOG
11/13	.0	.0	.0	.0	.0	.1	.0	.1	3	.0	.2
9/10	.0	.0	.0	.0	.1	.0	.0	.0	1	.0	.1
7/8	.0	.0	.0	.0	.2	.1	.1	.0	7	.1	.2
6	.0	.0	.0	.0	.1	.1	.1	.0	4	.1	.2
5	.0	.0	.0	.2	.2	.3	.0	.0	12	.0	.7
4	.0	.0	.0	.5	1.2	.6	.0	.0	37	.0	2.3
3	.0	.0	.0	.2	1.2	.4	.0	.0	29	.1	1.7
2	.0	.1	.2	1.1	3.4	.5	.0	.0	84	.2	5.0
1	.0	.0	.0	2.3	3.8	.6	.0	.0	108	.2	6.5
0	.0	.0	.5	7.0	6.1	.3	.0	.0	224	.4	13.5
-1	.0	.0	.7	7.4	3.9	.2	.0	.0	195	.3	11.8
-2	.0	.2	2.5	9.3	2.9	.2	.0	.0	245	.2	15.0
-3	.0	.1	2.8	7.2	1.5	.0	.1	.0	186	.2	11.4
-4	.1	.2	3.9	5.5	.9	.0	.0	.0	169	.1	10.4
-5	.1	.5	4.4	3.3	.4	.0	.0	.0	141	.3	8.5
-6	.0	.1	1.8	1.3	.3	.0	.0	.0	50	.0	3.5
-7/-8	.0	.6	2.0	1.6	.1	.0	.0	.0	69	.1	4.2
-9/-10	.0	.2	.7	.9	.1	.0	.0	.0	32	.0	2.0
-11/-13	.0	.1	.1	.2	.0	.0	.0	.0	6	.0	.4
TOTAL	3	33	773	57	4	1	1608	37	1571		
PCT	.2	2.1	19.7	48.1	26.2	3.5	.2	100.0	2.3	97.7	

PERIOD: (OVER-ALL) 1963-1972

TABLE 18

PCT FREQ OF WIND SPEED (KTS) AND DIRECTION VERSUS SEA HEIGHTS (FT)

HGT	1-3	4-10	11-21	22-33	34-47	48+	PCT	1-3	4-10	11-21	22-33	34-47	48+	PCT
<1	.6	1.1	.0	.0	.0	.0	1.7	.5	.9	.0	.0	.0	.0	1.4
1-2	.4	3.5	1.0	.0	.0	.0	4.8	.3	2.9	.3	.0	.0	.0	3.5
3-4	.0	1.7	.7	.0	.0	.0	2.4	.0	1.3	1.1	.0	.0	.0	2.4
5-6	.0	.0	.7	.6	.0	.0	1.4	.0	.0	1.6	.2	.0	.0	1.8
7	.0	.0	1.0	.0	.0	.0	1.0	.0	.0	.3	.0	.0	.0	.3
8-9	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
10-11	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
12	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
13-16	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
17-19	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
20-22	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
23-25	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
26-32	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
33-40	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
41-48	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
49-60	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
61-70	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
71-86	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
87+	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
TOT PCT	1.0	6.3	3.4	.6	.0	.0	11.3	.7	5.1	3.3	.2	.0	.0	9.3

HGT	1-3	4-10	11-21	22-33	34-47	48+	PCT	1-3	4-10	11-21	22-33	34-47	48+	PCT
<1	.0	.6	.0	.0	.0	.0	.6	.0	.7	.0	.0	.0	.0	.7
1-2	.4	1.8	.4	.0	.0	.0	2.6	.2	1.7	.3	.0	.0	.0	2.2
3-4	.0	1.4	1.2	.2	.0	.0	2.8	.0	.7	1.8	.1	.0	.0	2.6
5-6	.0	.4	1.8	.0	.0	.0	2.1	.0	.1	1.2	.0	.0	.0	1.2
7	.0	.0	.0	.2	.0	.0	.2	.0	.0	.0	.0	.2	.0	.2
8-9	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.2	.0	.0	.2
10-11	.0	.0	.2	.0	.0	.0	.2	.0	.0	.0	.0	.0	.0	.0
12	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
13-16	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
17-19	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
20-22	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.2	.0	.0	.2
23-25	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
26-32	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
33-40	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
41-48	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
49-60	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
61-70	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
71-86	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
87+	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
TOT PCT	.4	4.2	3.6	.4	.0	.0	8.6	.2	3.2	3.3	.5	.2	.0	7.4

PERIOD: (OVER-ALL) 1963-1972

JUNE

AREA 0009 MELBOURNE SE  
38.45 146.9E

TABLE 18 (CONT)

PCT FREQ OF WIND SPEED (KTS) AND DIRECTION VERSUS SEA HEIGHTS (FT)

S								SW							
HGT	1-3	4-10	11-21	22-33	34-47	48+	PCT	1-3	4-10	11-21	22-33	34-47	48+	PCT	
<1	.0	.4	.0	.0	.0	.0	.4	.9	1.3	.1	.0	.0	.0	2.2	
1-2	.2	.9	.2	.0	.0	.0	1.3	.0	2.4	.2	.0	.0	.0	2.6	
3-4	.0	.6	.5	.2	.0	.0	1.4	.0	.1	2.6	.4	.0	.0	3.1	
5-6	.0	.4	.2	.0	.0	.0	.6	.0	.2	3.2	1.1	.0	.0	4.5	
7	.0	.0	.4	.2	.0	.0	.6	.0	.0	.9	.3	.0	.0	1.2	
8-9	.0	.0	.0	.0	.0	.0	.0	.0	.0	.2	.5	.0	.0	.7	
10-11	.0	.0	.0	.2	.0	.0	.2	.0	.0	.0	.4	.2	.0	.6	
12	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.4	.4	.0	.9	
13-16	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.4	.0	.0	.4	
17-19	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
20-22	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
23-25	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
26-32	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
33-40	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
41-48	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
49-60	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
61-70	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
71-86	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
87+	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
TOT PCT	.2	2.4	1.3	.6	.0	.0	4.5	.9	4.0	7.1	3.6	.6	.0	16.1	

W								NW								TOTAL PCT
HGT	1-3	4-10	11-21	22-33	34-47	48+	PCT	1-3	4-10	11-21	22-33	34-47	48+	PCT		
<1	.0	1.0	.4	.0	.0	.0	1.3	.4	1.3	.0	.0	.0	.0	1.7		
1-2	.0	3.4	1.5	.0	.0	.0	4.9	.0	5.0	.7	.0	.0	.0	5.8		
3-4	.0	1.0	4.7	.2	.0	.0	5.8	.0	.9	4.2	.1	.0	.0	5.1		
5-6	.0	.2	2.8	.8	.0	.0	3.8	.0	.2	1.8	.9	.2	.0	3.0		
7	.0	.0	1.3	1.8	.0	.0	3.1	.0	.0	1.1	.7	.3	.0	1.8		
8-9	.0	.0	.2	.6	.2	.0	1.0	.0	.0	.5	.0	.0	.0	.5		
10-11	.0	.0	.2	.6	.2	.0	1.1	.0	.0	.0	.2	.0	.0	.2		
12	.0	.0	.2	.6	.2	.0	1.4	.0	.0	.0	.2	.0	.0	.2		
13-16	.0	.0	.0	.0	.4	.0	.4	.0	.0	.0	.2	.0	.0	.2		
17-19	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0		
20-22	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0		
23-25	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0		
26-32	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0		
33-40	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0		
41-48	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0		
49-60	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0		
61-70	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0		
71-86	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0		
87+	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0		
TOT PCT	.0	5.5	11.3	4.2	.9	.0	21.8	.4	7.4	8.2	2.2	.2	.0	18.5	97.6	

WIND SPEED (KTS) VS SEA HEIGHT (FT)

HGT	0-3	4-10	11-21	22-33	34-47	48+	PCT	TOT OBS
<1	5.7	7.5	.4	.0	.0	.0	13.6	
1-2	1.7	21.2	4.4	.0	.0	.0	27.3	
3-4	.0	7.5	16.6	1.0	.0	.0	25.2	
5-6	.2	1.5	13.0	3.6	.2	.0	18.4	
7	.0	.0	4.8	3.1	.2	.0	8.2	
8-9	.0	.0	.8	1.3	.2	.0	2.3	
10-11	.0	.0	.4	1.5	.4	.0	2.3	
12	.0	.0	.2	.8	.4	.0	1.5	
13-16	.0	.0	.0	.6	.4	.0	1.0	
17-19	.0	.0	.0	.0	.0	.0	.0	
20-22	.0	.0	.0	.2	.0	.0	.2	
23-25	.0	.0	.0	.0	.0	.0	.0	
26-32	.0	.0	.0	.0	.0	.0	.0	
33-40	.0	.0	.0	.0	.0	.0	.0	
41-48	.0	.0	.0	.0	.0	.0	.0	
49-60	.0	.0	.0	.0	.0	.0	.0	
61-70	.0	.0	.0	.0	.0	.0	.0	
71-86	.0	.0	.0	.0	.0	.0	.0	
87+	.0	.0	.0	.0	.0	.0	.0	
TOT PCT	7.5	37.7	40.7	12.2	1.9	.0	100.0	477

PERIOD: (OVER-ALL) 1949-1972

TABLE 19

PERCENT FREQUENCY OF WAVE HEIGHT (FT) VS WAVE PERIOD (SECONDS)

PERIOD (SEC)	<1	1-2	3-4	5-6	7	8-9	10-11	12	13-16	17-19	20-22	23-25	26-32	33-40	41-48	49-60	61-70	71-86	87+	TOTAL	MEAN HGT
<6	3.2	9.5	14.5	6.3	2.7	.8	.0	.3	.5	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	235
6-7	.2	1.3	6.9	11.0	5.5	2.1	1.8	1.1	.8	.3	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	192
8-9	.0	.5	1.9	3.7	4.5	3.5	1.6	.5	.8	.0	.2	.0	.0	.0	.0	.0	.0	.0	.0	.0	107
10-11	.0	.0	1.0	1.0	.8	.8	.5	.6	.0	.0	.2	.2	.2	.0	.0	.0	.0	.0	.0	.0	32
12-13	.0	.0	.3	.3	.3	.5	.2	.0	.6	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	14
>13	.0	.0	.0	.0	.0	.2	.0	.0	.2	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	2
INDET	2.3	.6	1.1	1.0	1.1	.0	.2	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	39
TOTAL	35	74	160	144	93	49	26	16	18	2	2	1	1	0	0	0	0	0	0	0	821
PCT	5.6	11.9	25.8	23.2	15.0	7.9	4.2	2.6	2.9	.3	.3	.2	.2	.0	.0	.0	.0	.0	.0	.0	100.0



PERIOD: (PRIMARY) 1907-1972  
(OVER-ALL) 1855-1972

JULY

AREA 0009 MELBOURNE SE  
38.45 147.0E

TABLE 1

PERCENT FREQUENCY OF WEATHER OCCURRENCE BY WIND DIRECTION

PRECIPITATION TYPE										OTHER WEATHER PHENOMENA						
WIND DIR	RAIN	RAIN SHHR	DRZL	FRIZ PCPN	SNOW	OTHER FRZN PCPN	HAIL	PCPN AT DB TIME	PCPN PAST HOUR	THOR LTNG	FOG WD PCPN	FOG WD PAST HR	SMOKE HAZE	SPRAY BLWG DUST	NO SIG WEA	
N	4.0	2.7	1.6	.0	.0	.0	.0	8.2	.5	1.4	1.1	.0	.9	.0	88.2	
NE	13.6	3.0	2.0	.0	.0	.0	.0	18.6	2.0	1.6	3.3	.0	.0	.0	74.5	
E	5.2	3.3	2.7	.0	.0	.0	1.1	12.3	1.9	2.2	2.7	.0	.0	.0	80.8	
SE	4.9	13.3	.7	.0	.0	.0	.0	18.9	5.9	.0	2.1	.0	.3	.0	72.7	
S	7.3	12.1	3.0	.0	.0	.0	.9	22.8	2.2	1.8	3.0	.0	1.0	.6	70.4	
SW	4.8	11.5	1.7	.0	.0	.0	.8	18.8	2.4	.9	1.8	.0	.3	.0	76.3	
W	5.2	8.7	1.3	.0	.0	.0	.9	16.2	3.4	2.3	.6	.0	.6	.0	77.2	
NW	3.5	4.4	1.4	.0	.0	.0	.1	9.3	1.7	1.2	1.7	.0	.3	.0	86.1	
VAR	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
CALM	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	4.5	.0	.0	.0	95.5	
TOT PCT	5.3	7.1	1.7	.0	.0	.0	.5	14.5	2.2	1.5	1.7	.0	.5	*	79.9	
TOT OBS:	2099															

TABLE 2

PERCENT FREQUENCY OF WEATHER OCCURRENCE BY HOUR

HOUR (GMT)	PRECIPITATION TYPE							OTHER WEATHER PHENOMENA								
	RAIN	RAIN SHWR	DRZL	FRZG PCPN	SNOW	OTHER FRZN PCPN	HAIL	PCPN AT DB TIME	PCPN PAST HOUR	THOR LTNG	FOG WD PCPN	FOG WD PCPN	SMOKE HAZE	SPRAY BLWG BLWG	DUST SNOW	NO SIG WEA
00003	3.6	5.9	.8	.0	.0	.0	1.0	11.1	2.7	.0	1.0	.0	.8	.0		84.3
06009	5.7	8.1	.9	.0	.0	.0	.3	15.1	2.0	1.6	2.5	.0	.6	.0		78.9
12015	5.4	6.1	3.9	.0	.0	.0	.0	15.5	3.2	2.9	1.2	.0	.2	.0		77.6
18021	5.9	7.8	1.7	.0	.0	.0	.5	15.9	1.2	1.5	1.9	.0	.2	.0		79.5
TOT PCT	5.2	7.1	1.7	.0	.0	.0	.5	14.5	2.2	1.5	1.7	.0	.5	*		80.0
TOT OBS:	2119															

TABLE 3

PERCENTAGE FREQUENCY OF WIND DIRECTION BY SPEED AND BY HOUR

WIND DIR	WIND SPEED (KNOTS)										HOUR (GMT)								
	0-3	4-10	11-21	22-33	34-47	48+	TOTAL OBS	PCT FREQ	MEAN SPD	00	03	06	09	12	15	18	21		
N	1.6	7.4	5.0	1.5	.2	*	15.7	11.4	14.9	17.7	10.5	17.9	13.6	18.9	13.7	18.4			
NE	.7	4.3	2.4	.7	.1	*	8.2	10.9	6.6	8.9	8.6	8.8	8.6	7.4	7.0	8.7			
E	.6	2.8	2.0	.3	*	.0	5.8	10.3	4.7	4.8	6.0	7.3	6.1	6.8	5.7	5.0			
SE	.5	1.8	1.3	.1	*	.1	3.9	10.4	2.4	5.2	4.9	4.2	2.2	3.3	3.5	3.3			
S	.6	3.1	2.7	1.0	.3	*	7.7	13.6	7.2	6.3	6.0	10.0	7.6	8.7	8.7	7.4			
SW	.7	4.8	7.0	3.0	1.0	.3	16.8	16.6	11.6	14.8	21.1	17.7	16.5	17.1	17.2	15.1			
W	.6	6.0	8.9	4.6	1.3	.3	21.7	17.2	26.0	22.1	25.6	17.3	22.8	19.6	21.2	20.4			
NW	.9	6.6	7.4	3.3	.6	.0	18.7	14.7	26.2	18.7	19.0	15.1	20.1	16.7	21.1	21.2			
VAR	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0			
CALM	1.6						1.6	.0	.4	1.5	2.4	1.7	2.4	1.4	2.0	.5			
TOT OBS	237	1119	1116	445	107	20	3044		225	324	499	403	206	345	452	390			
TOT PCT	7.8	36.8	36.7	14.6	3.5	.7		100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0		

TABLE 3A

WIND DIR	WIND SPEED (KNOTS)						TOTAL OBS	PCT FREQ	MEAN SPD	HOUR (GMT)					
	0-6	7-16	17-27	28-40	41+					00	06	12	18	21	
N	5.4	6.5	2.9	.8	.1			15.7	11.4		16.9	13.8	16.9	15.9	
NE	3.0	3.4	1.3	.4	*			8.2	10.9		8.2	8.7	7.8	7.7	
E	2.1	2.6	.9	.2	*			5.8	10.3		4.7	6.6	6.5	5.4	
SE	1.4	1.9	.5	*	.1			3.9	10.4		4.4	4.5	2.9	3.4	
S	1.9	3.2	1.7	.7	*			7.7	13.6		6.6	7.8	8.3	8.1	
SW	2.4	6.6	5.4	2.0	.4			16.8	16.6		13.8	19.6	16.9	16.2	
W	2.6	8.7	7.2	2.5	.7			21.7	17.2		23.3	21.9	20.8	20.9	
NW	3.2	8.2	5.4	1.6	.2			18.7	14.7		20.9	15.0	18.0	21.1	
VAR	.0	.0	.0	.0	.0			.0	.0		.0	.0	.0	.0	
CALM	1.6							1.6	.0		1.2	2.1	1.8	1.3	
TOT OBS	718	1296	767	252	51	3044			14.0		749	902	551	842	
TOT PCT	23.6	41.3	25.2	8.3	1.7			100.0			100.0	100.0	100.0	100.0	

PERIOD: (PRIMARY) 1907-1972  
(OVER-ALL) 1855-1972

JULY

AREA 0009 MELBOURNE SE  
38.45 147.0E

TABLE 4

PERCENTAGE FREQUENCY OF WIND SPEED BY HOUR (GMT)

HOUR	CALM	1-3	4-10	WIND SPEED (KNOTS)			48+	MEAN	PCT FREQ	TOTAL OBS
				11-21	22-33	34-47				
00003	1.2	6.3	35.8	38.5	13.5	4.3	.5	14.2	100.0	749
06009	2.1	6.4	37.0	34.9	14.5	4.1	.9	14.0	100.0	902
12015	1.8	5.4	38.1	35.9	14.7	3.3	.7	14.0	100.0	551
18021	1.3	6.3	36.5	37.4	15.7	2.4	.5	13.9	100.0	842
TOT	49	188	1119	1116	445	107	20	14.0		3044
PCT	1.6	6.2	36.8	36.7	14.6	3.5	.7		100.0	

TABLE 5

PCT FREQ OF TOTAL CLOUD AMOUNT (EIGHTHS)  
BY WIND DIRECTION

WIND DIR	0-2	3-4	5-7	8 & OBS CO	TOTAL OBS	MEAN CLOUD COVER
N	3.1	1.9	3.1	4.2		5.2
NE	1.9	.8	3.4	1.5		5.0
E	1.2	.9	2.0	.4		4.3
SE	.4	.9	1.3	.4		4.8
S	.8	1.1	3.0	1.7		5.5
SW	2.7	4.3	7.0	2.7		4.8
W	4.9	4.9	12.7	5.1		5.1
NW	4.2	2.8	8.3	4.7		5.2
VAR	.0	.0	.0	.0		.0
CALM	.7	.6	.6	.0		3.2
TOT OBS	141	128	292	145	706	5.0
TOT PCT	20.0	18.1	41.4	20.5	100.0	

TABLE 6

PERCENTAGE FREQUENCY OF CEILING HEIGHTS (FT, NH >4/8)  
AND OCCURRENCE OF NH <5/8 BY WIND DIRECTION

WIND DIR	WIND SPEED (KNOTS)											TOTAL OBS					
	0-2	3-4	5-7	8-6	TOTAL OBS	MEAN CLOUD COVER	000	150	300	600	1000		2000	3500	5000	6500	8000+
							149	299	599	999	1999	3499	4999	6499	7999		
N	3.1	1.9	3.1	4.2	5.2	.0	.0	.1	.9	2.3	1.3	.2	.0	.0	.0	.6	5.8
NE	1.9	.8	1.4	1.7	5.0	.0	.0	.0	.3	.9	.7	.4	.1	.0	.0	.1	5.0
E	1.2	.9	2.0	.4	4.3	.0	.0	.0	.3	.5	.4	.5	.1	.1	.0	.0	2.5
SE	.4	.9	1.3	.4	4.8	.0	.0	.0	*	* 1.0	.1	*	.0	.0	.0	.0	1.7
S	.8	1.1	3.0	1.7	5.5	.0	.0	.2	1.2	1.1	.5	.5	.0	.0	.0	.0	2.9
SW	2.7	4.3	7.0	2.7	4.8	.0	.1	.3	1.4	3.9	.9	.4	.1	.1	.0	.0	9.3
W	4.9	4.9	12.7	5.1	5.1	.0	.1	.4	3.5	6.0	2.3	.8	.1	.0	.0	.0	14.2
NW	4.2	2.8	8.3	4.7	5.2	.0	.0	.2	3.1	2.8	1.6	1.0	.6	.0	.0	.1	10.7
VAR	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
CALM	.7	.6	.0	.0	3.2	.0	.0	.0	.1	.0	.0	.0	.0	.0	.0	.1	1.6
TOT OBS	141	128	292	145	706	5.0	1	2	11	79	130	56	24	8	1	7	387
TOT PCT	20.0	18.1	41.4	20.5	100.0		.1	.3	1.6	11.2	18.4	7.9	3.4	1.1	.1	1.0	54.8

TABLE 7

CUMULATIVE PCT FREQ OF SIMULTANEOUS OCCURRENCE  
OF CEILING HEIGHT (NH >4/8) AND VSBY (NM)

CEILING (FEET)	VSBY (NM)							
	>10	>5	>2	>1	>1/2	>1/4	>3/8	>0
>6500	1.1	1.1	1.1	1.1	1.1	1.1	1.1	1.1
>4000	1.8	2.1	2.2	2.2	2.2	2.2	2.2	2.2
>3500	4.6	5.4	5.5	5.5	5.5	5.5	5.5	5.5
>2000	11.9	13.3	13.4	13.4	13.4	13.4	13.4	13.4
>1000	26.2	31.0	31.2	31.3	31.3	31.3	31.3	31.3
>400	33.8	41.4	42.4	42.5	42.5	42.5	42.5	42.5
>300	34.6	42.8	43.9	44.0	44.0	44.0	44.0	44.0
>150	34.8	42.9	44.2	44.3	44.3	44.3	44.3	44.3
>0	34.9	43.1	44.3	44.5	44.5	44.5	44.5	44.5
TOTAL	252	311	320	321	321	321	321	321

TOTAL NUMBER OF OBS: 722

PCT FREQ NH <5/8: 55.5

TABLE 7A

PERCENTAGE FREQ OF LOW CLOUDS (EIGHTHS)

0	1	2	3	4	5	6	7	8	OBS CO	TOTAL OBS
7.9	14.8	10.4	11.7	9.2	10.9	10.4	9.3	15.3	.0	836

JULY

PERIOD: (PRIMARY) 1907-1972  
(OVER-ALL) 1855-1972AREA 0009 MELBOURNE SE  
38.45 147.0E

TABLE 8

PERCENT FREQ OF WIND DIRECTION VS OCCURRENCE OR NON-OCCURRENCE OF  
PRECIPITATION WITH VARYING VALUES OF VISIBILITY

VISBY (NM)		N	NE	E	SE	S	SW	W	NW	VAR	CALM	PCT	TOTAL OBS
<1/2	PCP	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
	NO PCP	.0	*	*	.0	.0	.0	.0	.0	.0	*	.1	
	TOT %	.0	*	*	.0	.0	.0	.0	.0	.0	*	.1	
1/2<1	PCP	.1	.0	.0	.0	*	.2	.1	*	.0	.0	.5	
	NO PCP	*	.1	*	.0	.2	.1	.0	.1	.0	.0	.7	
	TOT %	.1	.1	*	.0	.3	.3	.1	.1	.0	.0	1.2	
1<2	PCP	.0	.1	*	.0	.0	.0	*	.0	.0	.0	.1	
	NO PCP	*	.1	.0	.0	*	*	.0	.0	.0	.0	.2	
	TOT %	*	.2	*	.0	*	*	.0	.0	.0	.0	.4	
2<5	PCP	.3	.2	.1	*	.1	.3	.2	*	.0	.0	1.3	
	NO PCP	*	*	*	.1	.1	.1	.2	.2	.0	.0	.8	
	TOT %	.3	.3	.2	.1	.2	.4	.4	.2	.0	.0	2.0	
5<10	PCP	.6	1.0	.1	.4	1.3	2.1	2.4	1.3	.0	.0	9.2	
	NO PCP	5.4	2.0	1.5	1.1	2.7	6.0	7.5	7.6	.0	.1	34.0	
	TOT %	6.0	3.0	1.6	1.5	4.0	8.1	9.9	8.9	.0	.1	43.2	
10+	PCP	.3	.1	.2	.2	.4	.9	.8	.5	.0	.0	3.4	
	NO PCP	8.8	3.7	2.3	1.7	3.2	8.2	11.2	9.8	.0	.9	49.7	
	TOT %	9.1	3.8	2.5	1.8	3.6	9.1	12.0	10.3	.0	.9	53.1	
TOT OBS													
TOT PCT													
		15.6	7.4	4.4	3.5	8.1	17.9	22.5	19.5	.0	1.1	100.0	2058

TABLE 9

PERCENT FREQ OF WIND DIRECTION VS WIND SPEED  
WITH VARYING VALUES OF VISIBILITY

VISBY (NM)	SPD KTS	N	NE	E	SE	S	SW	W	NW	VAR	CALM	PCT	TOTAL OBS
<1/2	0-3	.0	.0	.0	.0	.0	.0	.0	.0	.0	*	*	
	4-10	.0	*	*	.0	.0	.0	.0	.0	.0	*	*	
	11-21	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
	22+	.0	.0	.0	.0	.0	.0	.0	.0	.0	*	.1	
	TOT %	.0	*	*	.0	.0	.0	.0	.0	.0	*	.1	
1/2<1	0-3	.0	.0	.0	.0	.0	*	.0	.0	.0	.0	*	
	4-10	.0	.1	*	.0	*	.0	.0	.1	.0	.0	.3	
	11-21	.0	.0	.0	.0	.2	*	.1	*	.0	.0	.3	
	22+	.1	*	.0	.0	*	.2	*	.0	.0	.0	.4	
	TOT %	.1	.1	*	.0	.3	.3	.1	.1	.0	.0	1.0	
1<2	0-3	.0	.0	.0	.0	.0	*	.0	.0	.0	.0	*	
	4-10	.1	*	.0	.0	*	.0	.0	*	.0	.0	.2	
	11-21	.0	*	*	.0	.0	*	*	.0	.0	.0	.1	
	22+	.0	.1	.0	.0	.0	.0	.1	*	.0	.0	.2	
	TOT %	.1	.2	*	.0	*	.1	.1	*	.0	.0	.5	
2<5	0-3	*	.0	.0	.0	*	*	*	.0	.0	*	.2	
	4-10	.2	.1	.2	.1	.1	.1	.1	.1	.0	.0	1.0	
	11-21	*	.1	.1	.0	.0	.1	.1	.1	.0	.0	.5	
	22+	*	*	.0	*	.1	.3	.3	.1	.0	.0	.9	
	TOT %	.3	.3	.2	.1	.3	.6	.5	.3	.0	*	2.5	
5<10	0-3	.6	.3	.3	.2	.3	.2	.1	.3	.0	.1	2.4	
	4-10	2.2	1.5	.8	.6	1.3	2.1	2.0	2.6	.0	.0	12.9	
	11-21	2.1	.5	.4	.5	1.1	2.9	3.4	3.6	.0	.0	14.6	
	22+	.7	.4	*	.2	.9	2.4	3.7	1.9	.0	.0	10.2	
	TOT %	5.5	2.7	1.6	1.5	3.7	7.6	9.2	8.3	.0	.1	40.1	
10+	0-3	1.1	.3	.3	.3	.1	.4	.4	.7	.0	1.0	4.8	
	4-10	4.9	2.6	1.5	.9	1.3	2.9	3.4	4.3	.0	.0	22.0	
	11-21	2.4	1.0	.7	.6	1.4	4.6	6.3	4.2	.0	.0	21.3	
	22+	.7	.1	.2	*	.5	1.6	2.7	2.0	.0	.0	7.7	
	TOT %	9.2	4.0	2.7	1.9	3.3	9.6	12.9	11.2	.0	1.0	55.8	
TOT OBS													
TOT PCT													
		15.2	7.3	4.5	3.4	7.5	18.0	22.8	20.0	.0	1.3	100.0	2298

JULY

PERIOD: (PRIMARY) 1907-1972  
(OVER-ALL) 1855-1972AREA 0009 MELBOURNE SE  
38.45 147.0E

TABLE 10

PERCENT FREQUENCY OF CEILING HEIGHTS (FEET, NH >4/8) AND  
OCCURRENCE OF NH <5/8 BY HOUR

HOURL (GMT)	000 149	150 299	300 599	600 999	1000 1999	2000 3499	3500 4999	5000 6499	6500 7999	8000+	TOTAL	NH <5/8 ANY HGT	TOTAL OBS
00003	.0	.0	1.4	12.3	18.6	8.2	3.6	.9	.0	.9	45.9	54.1	220
06009	.0	.5	1.5	9.0	15.4	7.0	2.0	1.5	.5	1.5	38.8	61.2	201
12015	.5	.5	1.6	9.4	15.6	6.3	4.2	1.6	.0	.0	39.6	60.4	192
18021	.0	.0	1.2	11.2	17.4	8.1	2.5	.0	.0	1.2	41.6	58.4	161
TOT	1	2	11	81	130	57	24	8	1	7	322	452	774
PCT	.1	.3	1.4	10.5	16.8	7.4	3.1	1.0	.1	.9	41.6	58.4	100.0

TABLE 11

PERCENT FREQUENCY VSBY (NM) BY HOUR

HOURL (GMT)	<1/2	1/2<1	1<2	2<5	5<10	10+	TOTAL OBS
00003	.0	1.0	.6	1.5	32.8	64.2	519
06009	.1	1.3	.3	3.6	45.9	48.8	719
12015	.0	.4	.7	2.0	35.4	61.5	452
18021	.1	1.3	.4	2.2	43.6	52.2	668
TOT	2	25	11	58	951	1311	2358
PCT	.1	1.1	.5	2.5	40.3	55.6	100.0

TABLE 12

CUMULATIVE PCT FREQ OF RANGES OF VSBY (NM) AND/OR  
CEILING HGT (FEET, NH >4/8) BY HOUR

HOURL (GMT)	<150 <5000	<600 <1	<1000 <5	1000+ AND 5+	NH <5/8 AND 5+	TOTAL OBS
00003	.0	1.4	14.5	34.3	51.2	207
06009	.0	2.1	12.6	28.3	59.2	191
12015	.6	2.8	12.7	29.3	58.0	181
18021	.0	1.4	14.0	32.2	53.8	143
TOT	1	14	97	224	401	722
PCT	.1	1.9	13.4	31.0	55.5	100.0

TABLE 13

PERCENT FREQUENCY OF RELATIVE HUMIDITY BY TEMP

TEMP F	0-29	30-39	40-49	50-59	60-69	70-79	80-89	90-100	TOTAL OBS	PCT FREQ
65/69	.0	.0	.0	.0	.1	.0	.0	.0	1	.1
60/64	.0	.0	.1	.3	.5	.9	.7	.3	37	2.9
55/59	.0	.1	.3	.9	5.6	12.8	11.3	2.7	423	33.1
50/54	.0	.0	.1	1.2	8.2	13.8	20.6	8.8	674	52.7
45/49	.0	.0	.1	.5	1.0	2.3	3.4	2.7	127	9.9
40/44	.0	.0	.0	.0	.0	.1	.2	.8	14	1.1
35/39	.0	.0	.0	.0	.0	.0	.1	.2	3	.2
TOTAL	0	1	7	36	197	376	464	198	1279	100.0
PCT	.0	.1	.5	2.8	15.4	29.4	36.3	15.5		

TABLE 14

PERCENT FREQUENCY OF WIND DIRECTION BY TEMP

N	NE	E	SE	S	SW	W	NW	VAR	CALM
.0	.0	.0	.0	.0	.0	.1	.0	.0	.0
.9	.3	.2	.1	.1	*	.4	.8	.0	.0
6.0	3.5	1.3	1.1	1.5	3.4	7.8	8.1	.0	.4
6.5	3.5	2.4	1.4	4.8	10.9	11.9	10.5	.0	.8
1.8	.6	.2	.4	.9	1.9	2.3	1.4	.0	.5
.4	.0	.1	.1	*	.3	*	.2	.0	.0
.2	.0	.0	.1	.0	.0	.0	.0	.0	.0
15.8	7.9	4.1	3.2	7.3	16.5	22.6	21.0	.0	1.6

TABLE 15

MEANS, EXTREMES AND PERCENTILES OF TEMP (DEG F) BY HOUR

HOURL (GMT)	MAX	99%	95%	50%	5%	1%	MIN	MEAN	TOTAL OBS
00003	67	62	59	54	50	47	44	54.3	741
06009	68	61	59	54	49	46	43	54.0	913
12015	64	59	58	53	49	46	43	53.1	558
18021	61	59	57	53	47	43	37	52.3	851
TOT	68	61	58	54	48	45	37	53.5	3063

TABLE 16

PERCENT FREQUENCY OF RELATIVE HUMIDITY BY HOUR

HOURL (GMT)	0-29	30-59	60-69	70-79	80-89	90-100	MEAN	TOTAL OBS
00003	.0	2.5	16.9	35.4	30.8	14.5	79	325
06009	.0	5.2	15.2	28.6	38.1	12.9	79	381
12015	.0	3.1	15.6	31.3	38.2	11.8	79	262
18021	.0	2.9	14.3	21.8	39.0	22.1	81	349
TOT	0	46	204	382	481	204	79	1317

PERIOD: (PRIMARY) 1907-1972  
(OVER-ALL) 1855-1972

JULY

AREA 0009 MELBOURNE SE  
38.45 147.0E

TABLE 17

PCT FREQ OF AIR TEMPERATURE (DEG F) AND THE OCCURRENCE OF FOG (WITHOUT PRECIPITATION)  
VS AIR-SEA TEMPERATURE DIFFERENCE (DEG F)

AIR-SEA TMP DIF	37 40	41 44	45 48	49 52	53 56	57 60	61 64	65 68	TOT	W FOG	NO FOG
9/10	.0	.0	.0	.0	.0	.0	.1	.1	2	.0	.1
7/8	.0	.0	.0	.0	.0	.2	.2	.0	6	.0	.4
6	.0	.0	.0	.0	.0	.2	.4	.0	9	.0	.5
5	.0	.0	.0	.1	.1	.7	.1	.0	17	.0	1.0
4	.0	.0	.0	.1	.3	.9	.4	.0	27	.0	1.6
3	.0	.0	.0	.1	1.1	1.6	.0	.0	46	.1	2.6
2	.0	.0	.0	.5	2.5	2.6	.1	.0	95	.1	5.6
1	.0	.0	.1	.5	4.7	2.3	.0	.0	126	.2	7.3
0	.0	.0	.1	1.4	9.7	2.2	.1	.0	223	.3	13.1
-1	.0	.0	.0	2.5	7.9	1.4	.0	.0	196	.1	11.7
-2	.0	.0	.4	4.0	9.7	.8	.0	.0	247	.5	14.4
-3	.0	.0	.4	5.3	5.5	.4	.0	.0	194	.2	11.5
-4	.0	.0	.4	6.0	4.2	.2	.0	.0	180	.2	10.6
-5	.0	.0	.8	4.1	1.2	.1	.0	.0	105	.1	6.2
-6	.0	.1	.4	2.8	.7	.0	.0	.0	67	.1	3.9
-7/-8	.0	.1	1.1	1.9	1.0	.0	.0	.0	68	.0	4.1
-9/-10	.0	.1	.5	1.0	.2	.0	.0	.0	31	.1	1.8
-11/-13	.1	.1	.2	.6	.3	.0	.0	.0	21	.0	1.3
-14/-16	.0	.0	.0	.1	.1	.0	.0	.0	4	.0	.2
TOTAL	1	5	75	514	821	226	20	2	1664	35	1629
PCT	.1	.3	4.5	30.9	49.3	13.6	1.2	.1	100.0	2.1	97.9

PERIOD: (OVER-ALL) 1963-1972

TABLE 18

PCT FREQ OF WIND SPEED (KTS) AND DIRECTION VERSUS SEA HEIGHTS (FT)

HGT	N								NE								PCT
	1-3	4-10	11-21	22-33	34-47	48+	PCT		1-3	4-10	11-21	22-33	34-47	48+	PCT		
<1	.1	.2	.0	.0	.0	.0	1.9		.5	1.2	.0	.0	.0	.0	.0	1.7	
1-2	.4	2.2	1.0	.0	.0	.0	3.6		.0	3.0	.6	.0	.0	.0	.0	3.6	
3-4	.0	1.2	1.9	.3	.0	.0	3.4		.0	1.1	1.4	.0	.0	.0	.0	2.5	
5-6	.0	.1	1.4	.4	.0	.0	1.9		.0	.8	.8	.0	.0	.0	.0	.8	
7	.0	.0	.2	.4	.0	.0	.6		.0	.0	.0	.0	.0	.0	.0	.0	
8-9	.0	.0	.0	.3	.0	.0	.3		.0	.0	.0	.0	.0	.0	.0	.0	
10-11	.0	.0	.0	.0	.0	.0	.0		.0	.0	.0	.0	.0	.0	.0	.0	
12	.0	.0	.0	.0	.0	.0	.0		.0	.0	.0	.0	.0	.0	.0	.0	
13-16	.0	.0	.0	.2	.0	.0	.2		.0	.0	.0	.0	.0	.0	.0	.0	
17-19	.0	.0	.0	.0	.0	.0	.0		.0	.0	.0	.0	.0	.0	.0	.0	
20-22	.0	.0	.0	.0	.0	.0	.0		.0	.0	.0	.0	.0	.0	.0	.0	
23-25	.0	.0	.0	.0	.0	.0	.0		.0	.0	.0	.0	.0	.0	.0	.0	
26-32	.0	.0	.0	.0	.0	.0	.0		.0	.0	.0	.0	.0	.0	.0	.0	
33-40	.0	.0	.0	.0	.0	.0	.0		.0	.0	.0	.0	.0	.0	.0	.0	
41-48	.0	.0	.0	.0	.0	.0	.0		.0	.0	.0	.0	.0	.0	.0	.0	
49-60	.0	.0	.0	.0	.0	.0	.0		.0	.0	.0	.0	.0	.0	.0	.0	
61-70	.0	.0	.0	.0	.0	.0	.0		.0	.0	.0	.0	.0	.0	.0	.0	
71-86	.0	.0	.0	.0	.0	.0	.0		.0	.0	.0	.0	.0	.0	.0	.0	
87+	.0	.0	.0	.0	.0	.0	.0		.0	.0	.0	.0	.0	.0	.0	.0	
TOT PCT	1.5	4.3	4.6	1.6	.0	.0	11.9		.5	5.4	2.8	.0	.0	.0	.0	8.7	

HGT	E								SE								PCT
	1-3	4-10	11-21	22-33	34-47	48+	PCT		1-3	4-10	11-21	22-33	34-47	48+	PCT		
<1	.3	.3	.0	.0	.0	.0	.6		.2	.6	.0	.0	.0	.0	.0	.8	
1-2	.0	1.1	.0	.0	.0	.0	1.1		.0	1.0	.8	.0	.0	.0	.0	1.8	
3-4	.0	.7	.5	.0	.0	.0	1.2		.0	.2	.4	.0	.0	.0	.0	.7	
5-6	.0	.1	.1	.0	.0	.0	.3		.0	.8	.8	.0	.0	.0	.0	.1	
7	.0	.0	.0	.0	.0	.0	.0		.0	.0	.0	.0	.0	.0	.0	.0	
8-9	.0	.0	.1	.0	.0	.0	.1		.0	.2	.8	.8	.0	.0	.0	.3	
10-11	.0	.0	.0	.0	.0	.0	.0		.0	.0	.0	.0	.0	.0	.0	.0	
12	.0	.0	.0	.0	.0	.0	.0		.0	.0	.0	.0	.0	.0	.0	.0	
13-16	.0	.0	.0	.0	.0	.0	.0		.0	.0	.0	.0	.0	.0	.0	.0	
17-19	.0	.0	.0	.0	.0	.0	.0		.0	.0	.0	.0	.0	.0	.0	.0	
20-22	.0	.0	.0	.0	.0	.0	.0		.0	.0	.0	.0	.0	.0	.0	.0	
23-25	.0	.0	.0	.0	.0	.0	.0		.0	.0	.0	.0	.0	.0	.0	.0	
26-32	.0	.0	.0	.0	.0	.0	.0		.0	.0	.0	.0	.0	.0	.0	.0	
33-40	.0	.0	.0	.0	.0	.0	.0		.0	.0	.0	.0	.0	.0	.0	.0	
41-48	.0	.0	.0	.0	.0	.0	.0		.0	.0	.0	.0	.0	.0	.0	.0	
49-60	.0	.0	.0	.0	.0	.0	.0		.0	.0	.0	.0	.0	.0	.0	.0	
61-70	.0	.0	.0	.0	.0	.0	.0		.0	.0	.0	.0	.0	.0	.0	.0	
71-86	.0	.0	.0	.0	.0	.0	.0		.0	.0	.0	.0	.0	.0	.0	.0	
87+	.0	.0	.0	.0	.0	.0	.0		.0	.0	.0	.0	.0	.0	.0	.0	
TOT PCT	.3	2.2	1.0	.0	.0	.0	3.5		.2	2.1	1.3	.8	.0	.0	.0	3.6	



PERIOD: (OVER-ALL) 1963-1972

JULY

AREA 0009 MELBOURNE SE  
38.45 147.0E

TABLE 18 (CONT)

PCT FREQ OF WIND SPEED (KTS) AND DIRECTION VERSUS SEA HEIGHTS (FT)

HGT	1-3	4-10	11-21	22-33	34-47	48+	PCT	1-3	4-10	11-21	22-33	34-47	48+	PCT
<1	.0	.4	.0	.0	.0	.0	.4	.0	.2	.0	.0	.0	.0	.2
1-2	.0	1.8	.3	.0	.0	.0	2.1	.0	1.9	.5	.0	.0	.0	2.4
3-4	.0	.0	1.7	.0	.0	.0	1.7	.0	2.6	2.1	.4	.0	.0	5.2
5-6	.0	.1	1.1	.1	.0	.0	1.4	.0	.6	3.3	.9	.0	.0	4.8
7	.0	.0	.6	.5	.2	.0	.8	.0	.0	1.1	.8	.0	.0	1.9
8-9	.0	.0	.2	.5	.4	.0	1.1	.0	.0	.2	.3	.0	.0	.6
10-11	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.7
12	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
13-16	.0	.0	.0	.1	.0	.0	.1	.0	.0	.0	.0	.0	.0	.0
17-19	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
20-22	.0	.0	.0	.0	.1	.0	.1	.0	.0	.0	.0	.2	.0	.2
23-25	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
26-32	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
33-40	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
41-48	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
49-60	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
61-70	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
71-86	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
87+	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
TOT PCT	.0	2.4	3.8	.8	.7	.0	7.7	.0	5.4	7.2	3.1	.3	.0	16.0

HGT	1-3	4-10	11-21	22-33	34-47	48+	PCT	1-3	4-10	11-21	22-33	34-47	48+	PCT	TOTAL PCT
<1	.0	.3	.0	.0	.0	.0	.3	.8	.9	.0	.0	.0	.0	1.7	
1-2	.0	2.6	1.5	.0	.0	.0	4.1	.0	3.1	.7	.0	.0	.0	3.8	
3-4	.0	1.7	6.1	.7	.0	.0	8.5	.0	2.3	4.8	1.0	.0	.0	8.1	
5-6	.0	.2	4.0	1.5	.0	.0	5.6	.0	.2	1.7	.7	.2	.0	2.8	
7	.0	.0	.6	1.9	.2	.0	2.6	.0	.0	.9	.6	.0	.0	1.5	
8-9	.0	.0	.1	1.2	.1	.0	1.5	.0	.0	.2	1.0	.0	.0	1.2	
10-11	.0	.0	.0	.8	.3	.1	1.3	.0	.0	.0	.4	.0	.0	.5	
12	.0	.0	.2	.4	.2	.9	.9	.0	.0	.0	.4	.2	.0	.6	
13-16	.0	.0	.0	.0	.5	.2	.7	.0	.0	.0	.2	.2	.0	.4	
17-19	.0	.0	.0	.0	.1	.0	.1	.0	.0	.0	.0	.0	.0	.0	
20-22	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
23-25	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
26-32	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
33-40	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
41-48	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
49-60	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
61-70	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
71-86	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
87+	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
TOT PCT	.0	4.7	12.5	6.3	1.7	.5	25.7	.8	6.5	8.4	4.2	.7	.0	20.6	97.7

WIND SPEED (KTS) VS SEA HEIGHT (FT)

HGT	0-3	4-10	11-21	22-33	34-47	48+	PCT	TOT DBS
<1	5.4	4.7	.0	.0	.0	.0	10.1	
1-2	.6	16.7	5.3	.0	.0	.0	22.5	
3-4	.0	9.8	18.9	2.4	.0	.0	31.1	
5-6	.0	1.5	12.4	3.6	.2	.0	17.6	
7	.0	.0	3.4	3.6	.4	.0	7.3	
8-9	.0	.2	.9	3.4	.6	.0	5.1	
10-11	.0	.0	.0	1.9	.4	.2	2.4	
12	.0	.0	.4	.6	.6	.2	1.7	
13-16	.0	.0	.0	.6	.8	.2	1.5	
17-19	.0	.0	.0	.0	.2	.0	.2	
20-22	.0	.0	.0	.0	.4	.0	.4	
23-25	.0	.0	.0	.0	.0	.0	.0	
26-32	.0	.0	.0	.0	.0	.0	.0	
33-40	.0	.0	.0	.0	.0	.0	.0	
41-48	.0	.0	.0	.0	.0	.0	.0	
49-60	.0	.0	.0	.0	.0	.0	.0	
61-70	.0	.0	.0	.0	.0	.0	.0	
71-86	.0	.0	.0	.0	.0	.0	.0	
87+	.0	.0	.0	.0	.0	.0	.0	
TOT PCT	6.0	32.8	41.3	15.9	3.4	.6	100.0	533

PERIOD: (OVER-ALL) 1949-1972

TABLE 19

PERCENT FREQUENCY OF WAVE HEIGHT (FT) VS WAVE PERIOD (SECONDS)

PERIOD (SEC)	<1	1-2	3-4	5-6	7	8-9	10-11	12	13-16	17-19	20-22	23-25	26-32	33-40	41-48	49-60	61-70	71-86	87+	TOTAL	MEAN HGT
<6	2.4	6.2	12.3	6.9	3.6	.5	1.4	.5	.0	.2	.0	.0	.0	.0	.0	.0	.0	.0	.0	225	4
6-7	.2	1.1	7.2	11.7	4.7	3.8	2.7	1.2	1.2	.0	.2	.0	.0	.0	.0	.0	.0	.0	.0	225	6
8-9	.0	.5	2.0	4.2	3.0	3.6	1.4	1.1	.5	.3	.2	.0	.2	.0	.0	.0	.0	.0	.0	111	7
10-11	.0	.3	.2	1.2	.8	1.7	1.1	.3	1.1	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	43	8
12-13	.0	.0	.0	.0	.3	.2	.5	.0	.3	.2	.2	.0	.0	.0	.0	.0	.0	.0	.0	15	12
>13	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	5	9
INDEX	1.8	.9	.5	2.0	.3	.2	.3	.5	.5	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	45	5
TOTAL	29	59	147	175	86	65	48	23	24	5	3	0	1	0	0	0	0	0	0	665	6
PCT	4.4	8.9	22.1	26.3	12.9	9.8	7.2	3.5	3.6	.8	.5	.0	.2	.0	.0	.0	.0	.0	.0	100.0	

PERIOD: (PRIMARY) 1902-1972  
(OVER-ALL) 1854-1972

AUGUST

AREA 0009 MELBOURNE SE  
38.45 146.8E

TABLE 1

PERCENT FREQUENCY OF WEATHER OCCURRENCE BY WIND DIRECTION

PRECIPITATION TYPE										OTHER WEATHER PHENOMENA						
WIND DIR	RAIN	RAIN SHWR	DRZL	FRIG PCPN	SNOW	OTHER FRZN PCPN	HAIL	PCPN AT DB TIME	PCPN PAST HOUR	THOR LTNG	FOG WD PCPN	FOG WD PCPN PAST HR	SMOKE HAZE	SPRAY BLWG DUST	NO SIG WEA	
N	7.4	3.1	1.4	.0	.0	.0	.3	12.2	.3	2.2	2.7	.0	1.0	.0	81.6	
NE	6.4	3.5	3.0	.0	.0	.0	.0	12.9	1.7	2.4	3.2	.0	1.6	.0	78.1	
E	12.4	.9	4.9	.0	.0	.0	.0	18.1	1.3	.0	4.4	.0	1.8	.0	74.3	
SE	9.2	5.7	1.1	.0	.0	.0	.0	16.0	2.9	.0	2.3	.0	.0	.0	78.8	
S	4.2	7.0	.0	.0	.0	.0	.0	11.2	2.3	1.7	2.1	.0	.0	.0	82.7	
SW	3.1	9.4	2.4	.0	.0	.0	.0	14.6	2.4	1.0	2.5	.0	.3	.0	79.2	
W	2.7	6.7	1.8	.0	.0	.0	.4	11.6	3.0	1.1	4.1	.0	.3	.0	80.0	
NW	3.9	4.9	1.0	.0	.0	.0	.0	9.8	1.3	.7	2.4	.0	1.3	.0	84.5	
VAR	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
CALM	.0	.0	.0	.0	.0	.0	.0	.0	5.7	.0	8.6	.0	8.6	.0	77.1	
TOT PCT	4.9	5.6	1.8	.0	.0	.0	.2	12.4	2.0	1.2	3.1	.0	.9	.0	80.4	
TOT OBS:	1978															

TABLE 2

PERCENT FREQUENCY OF WEATHER OCCURRENCE BY HOUR

HOUR (GMT)	PRECIPITATION TYPE							OTHER WEATHER PHENOMENA							
	RAIN	RAIN SHR	DRZL	FRIG PCPN	SNOW	OTHER FRZN PCPN	HAIL	PCPN AT DB TIME	PCPN PAST HOUR	THOR LTNG	FOG WD PCPN	FOG WD PCPN PAST HR	SMOKE HAZE	SPRAY BLWG DUST BLWG SNOW	NO SIG WEA
00603	3.9	4.1	1.3	.0	.0	.0	.2	9.5	1.7	.0	1.5	.0	1.5	.0	85.7
06609	5.2	4.9	.7	.0	.0	.0	.2	11.0	1.5	.7	3.9	.0	.7	.0	82.3
12615	4.5	6.2	2.4	.0	.0	.0	.2	13.3	3.3	1.9	2.4	.0	1.0	.0	78.3
18621	5.7	7.3	2.9	.0	.0	.0	.0	15.7	1.6	2.1	4.8	.0	.7	.0	75.1
TOT PCT	4.9	5.6	1.8	.0	.0	.0	.1	12.5	1.9	1.2	3.3	.0	.9	.0	80.2
TOT OBS:	2054														

TABLE 3

PERCENTAGE FREQUENCY OF WIND DIRECTION BY SPEED AND BY HOUR

WIND DIR	WIND SPEED (KNOTS)							TOTAL DBS	PCT FREQ	MEAN SPD	HOUR (GMT)							
	0-3	4-10	11-21	22-33	34-47	48+					00	03	06	09	12	15	18	21
N	1.4	6.9	5.9	1.1	.3	*		15.5	11.8		12.9	17.4	11.1	15.4	8.0	18.4	17.3	17.9
NE	1.0	5.6	3.1	.5	.1	.0		10.3	10.2		8.2	10.8	11.9	12.1	9.4	11.0	8.9	8.5
E	.9	3.0	1.4	.2	*	.0		5.6	8.9		5.5	4.1	7.1	5.3	6.0	6.5	5.3	4.5
SE	.5	1.7	1.5	.7	.1	.0		4.6	12.7		2.8	5.0	3.6	5.3	5.7	3.7	5.0	5.2
S	.7	2.2	2.3	.7	.2	.0		6.2	13.1		2.0	5.8	7.5	8.1	6.3	6.2	5.2	6.7
SW	.9	4.5	7.5	3.7	.6	.0		17.0	15.8		14.4	14.7	22.7	17.4	19.4	17.0	16.8	13.5
W	.5	5.9	9.5	4.6	1.0	*		21.6	16.3		32.6	22.3	21.6	18.4	25.5	21.0	18.7	19.7
NW	1.2	6.8	6.2	2.4	.4	.0		17.1	13.2		20.1	18.6	12.9	14.0	13.5	15.9	19.2	22.3
VAR	.0	.0	.0	.0	.0	.0		.0	.0		.0	.0	.0	.0	.0	.0	.0	.0
CALM	2.0							2.0	.0		1.4	1.2	1.6	2.0	6.1	.3	3.6	1.3
TOT DBS	269	1081	1106	411	79	2	2948		13.3		213	486	442	396	196	362	478	375
TOT PCT	9.1	36.7	37.5	13.9	2.7	.1		100.0			100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0

TABLE 3A

WIND DIR	WIND SPEED (KNOTS)					41+	TOTAL DBS	PCT FREQ	MEAN SPD	HOUR (GMT)			
	0-6	7-16	17-27	28-40						00	06	12	18
N	4.0	8.0	3.0	.4	.2			15.5	11.8	16.0	13.6	14.7	17.6
NE	3.4	5.3	1.3	.3	.0			10.3	10.2	10.0	12.0	10.5	8.9
E	2.7	2.3	.5	.1	*			5.6	8.9	4.5	6.7	6.3	4.9
SE	1.4	1.7	1.2	.3	*			4.6	12.7	4.4	4.4	4.4	5.1
S	1.5	2.8	1.5	.4	*			6.2	13.1	4.6	7.8	6.2	5.9
SW	2.6	6.5	6.1	1.8	*			17.0	15.8	14.6	20.2	17.8	15.4
W	2.5	9.2	7.3	2.4	.2			21.6	16.3	25.5	20.1	22.6	19.1
NW	4.1	7.9	3.8	1.3	.1			17.1	13.2	19.1	13.4	15.1	20.6
VAR	.0	.0	.0	.0	.0			.0	.0	.0	.0	.0	.0
CALM	2.0							2.0	.0	1.3	1.8	2.3	2.6
TOT DBS	711	1286	723	208	20	2948			13.3	699	838	558	853
TOT PCT	24.1	43.6	24.5	7.1	.7			100.0		100.0	100.0	100.0	100.0

PERIOD: (PRIMARY) 1907-1972  
(OVER-ALL) 1854-1972

AUGUST

AREA 0009 MELBOURNE SE  
38.45 146.8E

TABLE 4

PERCENTAGE FREQUENCY OF WIND SPEED BY HOUR (GMT)

HR	CALM	1-3	4-10	11-21	22-33	34-47	48+	MEAN	PCT FREQ	TOTAL OBS
00003	1.3	6.4	36.1	37.6	15.2	3.3	.1	14.0	100.0	699
06009	1.8	7.9	36.5	38.5	13.1	2.1	.0	13.0	100.0	838
12015	2.3	7.0	35.5	39.2	12.7	3.0	.2	13.4	100.0	558
18021	2.6	7.0	38.1	35.3	14.5	2.5	.0	12.9	100.0	853
TOT	59	210	1081	1106	411	79	2	13.3		2948
PCT	2.0	7.1	36.7	37.5	13.9	2.7	.1	100.0		

TABLE 5

PCT FREQ OF TOTAL CLOUD AMOUNT (EIGHTHS)  
BY WIND DIRECTION

WIND DIR	0-2	3-4	5-7	8 & OBSCD	TOTAL OBS	MEAN CLOUD COVER
N	3.0	2.0	3.3	1.9		4.6
NE	3.2	2.0	1.9	1.9		4.1
E	2.4	.4	2.3	1.9		4.4
SE	.4	.4	.7	1.8		6.1
S	.5	1.4	1.7	.0		5.1
SW	3.0	5.4	7.0	3.2		4.8
W	6.4	5.9	11.3	4.2		4.7
NW	5.5	1.9	5.4	3.2		4.5
VAR	.0	.0	.0	.0		.0
CALM	2.5	.3	.6	.4		2.5
TOT OBS	181	132	230	128	671	4.6
TOT PCT	27.0	19.7	34.3	19.1	100.0	

TABLE 6

PERCENTAGE FREQUENCY OF CEILING HEIGHTS (FT, NH >4/8)  
AND OCCURRENCE OF NH <5/8 BY WIND DIRECTION

AND ACCURACY OF NH C/S/B BY WIND DIRECTION										
000	150	300	400	1000	2000	3500	5000	6500	8000+	NH C/S/B TOTAL
149	299	599	999	1999	3499	4999	6499	7999		ANY HGT OBS
.0	.0	.4	.4	1.3	.6	.4	.0	.0	.1	7.0
.0	.0	.0	.6	1.1	.3	.4	.1	.1	.1	6.1
.0	.0	.0	1.2	.9	.3	.2	.0	.0	.0	4.0
.0	.0	.3	.5	1.0	.3	.1	.0	.0	.0	1.0
.1	.0	.1	.1	1.2	.2	.0	.0	.0	.0	2.7
.2	.0	.4	1.5	4.9	1.3	.0	.1	.0	.0	10.1
.3	.0	.3	3.1	5.5	1.6	1.5	.2	.0	.1	15.3
.0	.0	.0	1.6	2.4	1.3	.4	.4	.0	.3	9.7
.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
.0	.0	.0	.0	.3	.1	.1	.0	.1	.0	3.1
.4	.0	.1	.6	1.25	.40	.21	.6	.2	.5	39.6
.6	.0	1.6	9.1	18.6	6.0	3.1	.9	.3	.7	59.0
										671
										100.0

TABLE 7

CUMULATIVE PCT FREQ OF SIMULTANEOUS OCCURRENCE  
OF CEILING HEIGHT (NH >4/8) AND VSBY (NM)

CEILING (FEET)	DR >10	DR >5	DR >2	DR >1	DR >1/2	DR >1/4	DR >50YD	DR >0
DR >6500	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0
DR >4000	2.2	2.2	2.2	2.2	2.2	2.2	2.2	2.2
DR >3500	4.8	5.2	5.3	5.3	5.3	5.3	5.3	5.3
DR >2000	9.9	11.1	11.2	11.2	11.2	11.2	11.2	11.2
DR >1000	24.6	28.5	29.4	29.5	29.5	29.5	29.5	29.5
DR >600	30.7	36.7	38.3	38.5	38.5	38.5	38.5	38.5
DR >300	31.1	37.9	39.9	40.1	40.1	40.1	40.1	40.1
DR >150	31.1	37.9	39.9	40.1	40.1	40.1	40.1	40.1
DR >0	31.3	38.2	40.3	40.5	40.5	40.5	40.6	40.6
TOTAL	217	265	280	281	281	281	282	282

TOTAL NUMBER OF OBS: 694

PCT FREQ NH <5/8: 59.4

TABLE 7A

PERCENTAGE FREQ OF LOW CLOUDS (EIGHTHS)

0	1	2	3	4	5	6	7	8	OBSCD	TOTAL OBS
10.0	16.5	11.4	12.3	8.9	9.4	9.9	8.2	13.0	.4	778

## AUGUST

PERIOD: (PRIMARY) 1902-1972  
(OVER-ALL) 1854-1972

AREA 0009 MELBOURNE SE  
38.45 146.8E

TABLE 8

PERCENT FREQ OF WIND DIRECTION VS OCCURRENCE OR NON-OCCURRENCE OF  
PRECIPITATION WITH VARYING VALUES OF VISIBILITY

VSBY (NM)		N	NE	E	SE	S	SW	W	NW	VAR	CALM	PCT	TOTAL OBS
<1/2	PCP	.0	.0	.0	.0	.0	*	*	.0	.0	.0	.1	
	NO PCP	.0	.1	.1	.0	.0	.1	.1	.1	.0	.1	.3	
	TOT %	.0	.1	.1	.0	.0	.1	.1	.1	.0	.1	.4	
1/2<1	PCP	.0	.0	.1	.0	.1	.1	.0	.1	.0	.0	.2	
	NO PCP	.3	.3	.2	.2	.0	.2	.5	.2	.0	.0	1.7	
	TOT %	.3	.3	.3	.2	.1	.2	.5	.2	.0	.0	1.9	
1<2	PCP	.0	.0	.0	.0	.0	.1	.1	.0	.0	.0	.1	
	NO PCP	.1	.0	.1	.0	.0	.0	.1	.1	.0	.0	.3	
	TOT %	.1	.0	.1	.0	.0	.1	.1	.1	.0	.0	.4	
2<5	PCP	.1	*	.2	.1	.1	.1	.2	.1	.0	.0	.9	
	NO PCP	*	.0	.0	.0	.1	.3	.2	.1	.0	.0	.6	
	TOT %	.1	*	.2	.1	.1	.4	.4	.2	.0	.0	1.4	
5<10	PCP	1.4	.6	.7	.4	.4	1.5	1.8	1.1	.0	.0	7.9	
	NO PCP	5.8	3.1	1.4	1.8	2.4	5.4	7.1	5.7	.0	.3	33.0	
	TOT %	7.2	3.7	2.1	2.2	2.8	6.9	8.9	6.8	.0	.3	41.0	
10+	PCP	.3	.6	.1	.2	.2	.9	.6	.4	.0	.0	3.2	
	NO PCP	6.8	4.8	3.0	1.8	2.8	9.6	12.1	9.5	.0	1.4	51.8	
	TOT %	7.2	5.4	3.1	2.0	3.0	10.5	12.7	9.8	.0	1.4	55.1	
TOT OBS													
TOT PCT													
		14.8	9.4	5.7	4.4	6.0	18.1	22.6	17.2	.0	1.8	100.0	1978

TABLE 9

PERCENT FREQ OF WIND DIRECTION VS WIND SPEED  
WITH VARYING VALUES OF VISIBILITY

VSBY (NM)	SPD KTS	N	NE	E	SE	S	SW	W	NW	VAR	CALM	PCT	TOTAL OBS
<1/2	0-3	.0	.0	.0	.0	.0	.0	.0	.0	.0	*	*	
	4-10	.0	*	*	.0	.0	*	*	*	.0	*	*	
	11-21	.0	.0	.0	.0	.0	.0	*	.0	.0	*	*	
	22+	.0	.0	.0	.0	.0	*	*	.0	.0	*	*	
	TOT %	.0	*	*	.0	.0	.1	.1	*	.0	*	.3	
1/2<1	0-3	*	.1	.0	.0	.0	.0	*	*	.0	.0	.1	
	4-10	*	.1	.1	.0	.0	*	.2	*	.0	.0	.5	
	11-21	.2	.1	*	*	.0	.1	.1	.1	.0	.0	.6	
	22+	*	.0	*	.1	*	*	.1	*	.0	.0	.4	
	TOT %	.3	.2	.2	.1	*	.2	.4	.2	.0	.0	1.7	
1<2	0-3	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
	4-10	.1	.0	*	.0	.0	*	.0	.1	.0	.0	.3	
	11-21	*	.0	.0	.0	.0	.0	.1	.1	.0	.0	.2	
	22+	.0	.0	.0	.0	.0	.0	*	.0	.0	.0	*	
	TOT %	.1	.0	*	.0	.0	*	.2	.2	.0	.0	.5	
2<5	0-3	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
	4-10	*	*	.1	.0	.0	.1	.1	.1	.0	.0	.5	
	11-21	.1	*	.1	*	*	.1	.1	.2	.0	.0	.7	
	22+	*	.0	*	.0	.1	.1	.2	*	.0	.0	.5	
	TOT %	.1	.1	.2	*	.1	.4	.5	.2	.0	.0	1.7	
5<10	0-3	.5	.4	.4	.2	.2	.3	.3	.5	.0	.4	3.1	
	4-10	2.4	1.7	1.0	.4	.9	1.8	2.1	2.3	.0	.0	12.7	
	11-21	3.0	1.2	.3	.8	.9	2.4	3.1	2.4	.0	.0	14.3	
	22+	.6	.2	.1	.6	.5	1.8	2.7	1.1	.0	.0	7.7	
	TOT %	6.6	3.4	1.8	2.1	2.5	6.4	8.1	6.4	.0	.4	37.7	
10+	0-3	.9	.7	.5	.2	.4	.6	.3	.9	.0	1.6	6.0	
	4-10	4.0	3.5	1.6	1.0	1.2	2.6	3.5	4.3	.0	.0	21.6	
	11-21	2.3	1.7	.8	.7	1.2	5.1	6.5	3.4	.0	.0	21.6	
	22+	.5	.2	.1	.1	.4	2.6	3.0	1.9	.0	.0	8.8	
	TOT %	7.6	6.0	3.0	1.9	3.2	10.9	13.3	10.5	.0	1.6	58.0	
TOT OBS													
TOT PCT													
		14.7	9.7	5.4	4.2	5.9	17.9	22.6	17.5	.0	2.0	100.0	2218

AUGUST

PERIOD: (PRIMARY) 1902-1972  
(OVER-ALL) 1854-1972AREA 0009 MELBOURNE SE  
38.45 146.8E

TABLE 10

PERCENT FREQUENCY OF CEILING HEIGHTS (FEET, NH >4/8) AND  
OCCURRENCE OF NH <5/8 BY HOUR

HOURL (GMT)	000 149	150 299	300 599	600 999	1000 1999	2000 3499	3500 4999	5000 6499	6500 7999	8000+	TOTAL	NH <5/8 ANY HGT	TOTAL OBS
00003	.0	.0	1.4	6.5	18.7	7.9	2.3	1.9	.5	.5	39.7	60.3	214
06009	.6	.0	1.7	12.0	17.7	2.9	3.4	1.1	.6	.0	40.0	60.0	175
12015	1.1	.0	1.6	8.2	14.3	4.4	3.8	.0	.0	1.1	34.6	65.4	182
18021	.6	.0	1.2	7.0	17.5	6.4	2.3	1.2	.0	1.2	37.4	62.6	171
TOT	4	0	11	62	127	41	22	8	2	5	282	460	742
PCT	.5	.0	1.5	8.4	17.1	5.5	3.0	1.1	.3	.7	38.0	62.0	100.0

TABLE 11

PERCENT FREQUENCY VSBY (NM) BY HOUR

HOURL (GMT)	<1/2	1/2<1	1<2	2<5	5<10	10+	TOTAL OBS
00003	.0	1.0	.2	1.0	30.1	67.7	502
06009	.6	1.4	.2	1.8	44.8	51.3	661
12015	.4	1.5	.6	1.7	34.5	61.3	470
18021	.3	3.0	1.1	2.0	39.3	54.3	661
TOT	8	41	12	38	869	1326	2294
PCT	.3	1.8	.5	1.7	37.9	57.8	100.0

TABLE 12

CUMULATIVE PCT FREQ OF RANGES OF VSBY (NM) AND/OR  
CEILING HGT (FEET, NH >4/8) BY HOUR

HOURL (GMT)	<150 <50YD	<600 <1	<1000 <5	1000+ AND 5+	NH <5/8 AND 5+	TOTAL OBS
00003	.0	1.5	9.9	32.5	57.6	203
06009	.6	2.4	15.7	26.5	57.8	166
12015	1.2	3.0	13.9	25.3	60.8	166
18021	.6	2.5	11.9	28.9	59.1	159
TOT	4	16	88	198	408	694
PCT	.6	2.3	12.7	28.5	58.8	100.0

TABLE 13

PERCENT FREQUENCY OF RELATIVE HUMIDITY BY TEMP

TEMP F	0-29	30-39	40-49	50-59	60-69	70-79	80-89	90-100	TOTAL OBS	PCT FREQ
65/69	.0	.0	.1	.1	.1	.1	.0	.0	5	.4
60/64	.0	.1	.0	.5	1.2	1.3	.4	.4	53	4.7
55/59	.0	.0	.2	1.0	6.0	11.3	9.8	3.9	359	32.1
50/54	.0	.0	.2	1.1	9.3	16.6	19.0	9.3	619	55.4
45/49	.0	.0	.0	.0	.7	1.4	2.1	2.3	74	6.6
40/44	.0	.0	.0	.0	.0	.0	.1	.4	6	.5
35/39	.0	.0	.0	.0	.0	.0	.0	.1	1	.1
TOTAL	0	1	5	30	193	342	362	184	1117	100.0
PCT	.0	.1	.4	2.7	17.3	30.6	32.4	16.5		

TABLE 14

PERCENT FREQUENCY OF WIND DIRECTION BY TEMP

N	NE	E	SE	S	SW	W	NW	VAR	CALM
.1	.1	.1	*	.0	.0	.0	.2	.0	.0
.9	1.2	.2	*	*	.2	.7	1.1	.0	.4
6.9	3.9	1.6	.7	.9	5.0	6.2	6.2	.0	.8
5.7	2.0	2.0	1.7	3.8	13.5	15.6	9.7	.0	1.4
.9	.5	.1	.2	.3	1.7	1.5	1.4	.0	.0
.0	.0	.0	.0	.1	.2	.2	.1	.0	.0
.1	.0	.0	.0	.0	.0	.0	.0	.0	.0
14.6	7.7	4.0	2.7	5.1	20.5	24.2	18.7	.0	2.6

TABLE 15

MEANS, EXTREMES AND PERCENTILES OF TEMP (DEG F) BY HOUR

HOURL (GMT)	MAX	99%	95%	50%	5%	1%	MIN	MEAN	TOTAL OBS
00003	68	64	61	55	50	47	45	54.6	695
06009	68	64	60	54	49	47	39	54.5	841
12015	65	61	58	53	49	46	45	53.2	572
18021	64	60	58	53	48	44	41	52.6	864
TOT	68	63	59	54	49	46	39	53.7	2972

TABLE 16

PERCENT FREQUENCY OF RELATIVE HUMIDITY BY HOUR

HOURL (GMT)	0-29	30-59	60-69	70-79	80-89	90-100	MEAN	TOTAL OBS
00003	.0	4.2	19.2	34.3	29.0	13.3	77	286
06009	.0	3.9	22.2	32.7	29.7	11.4	77	306
12015	.0	2.9	15.9	28.9	37.7	14.6	79	239
18021	.0	2.2	12.2	26.6	34.4	24.7	81	320
TOT	0	38	200	352	374	187	79	1151



## AUGUST

PERIOD: (PRIMARY) 1902-1972  
(OVER-ALL) 1854-1972

TABLE 17

AREA 0009 MELBOURNE SE  
38.45 146.8EPCT FREQ OF AIR TEMPERATURE (DEG F) AND THE OCCURRENCE OF FOG (WITHOUT PRECIPITATION)  
VS AIR-SEA TEMPERATURE DIFFERENCE (DEG F)

AIR-SEA TMP DIF	37 40	41 44	45 48	49 52	53 56	57 60	61 64	65 68	TOT	W FOG	WD FOG
11/13	.0	.0	.0	.0	.0	.2	.2	.0	6	.0	.4
9/10	.0	.0	.0	.0	.0	.1	.1	.1	5	.0	.3
7/8	.0	.0	.0	.0	.2	.2	.4	.1	13	.0	.8
6	.0	.0	.0	.0	.1	.4	.2	.0	11	.0	.7
5	.0	.0	.0	.0	.2	.8	.6	.1	27	.0	1.6
4	.0	.0	.1	.0	.4	2.0	.3	.0	46	.1	2.6
3	.0	.0	.0	.0	1.0	1.9	.1	.0	49	.0	2.9
2	.0	.0	.1	.2	4.2	2.1	.2	.0	114	.2	6.7
1	.0	.0	.1	.6	6.2	2.2	.2	.0	153	.3	8.9
0	.0	.0	.0	2.0	11.9	2.0	.2	.0	268	.7	15.4
-1	.0	.0	.1	3.5	10.0	.8	.0	.0	240	1.0	13.4
-2	.0	.0	.2	6.4	7.3	.4	.1	.0	239	.4	13.9
-3	.0	.0	.3	5.2	4.0	.4	.0	.0	163	.4	9.4
-4	.0	.1	.4	5.2	2.5	.3	.0	.0	141	.2	8.2
-5	.0	.0	.5	3.4	1.1	.1	.0	.0	87	.1	5.2
-6	.0	.0	.4	1.3	.8	.1	.0	.0	43	.1	2.5
-7/-8	.0	.0	.7	1.0	.4	.1	.0	.0	36	.1	2.1
-9/-10	.0	.0	.2	.4	.2	.2	.0	.0	16	.1	.9
-11/-13	.1	.1	.1	.1	.0	.1	.0	.0	7	.1	.4
TOTAL	1	2	52	490	837	237	41	4	1664	62	1602
PCT	.1	.1	3.1	29.4	50.3	14.2	2.5	.2	100.0	3.7	96.3

PERIOD: (OVER-ALL) 1963-1972

TABLE 18

PCT FREQ OF WIND SPEED (KTS) AND DIRECTION VERSUS SEA HEIGHTS (FT)

HGT	N								NE							
	1-3	4-10	11-21	22-33	34-47	48+	PCT		1-3	4-10	11-21	22-33	34-47	48+	PCT	
<1	.7	.9	.0	.0	.0	.0	1.7		.0	.7	.0	.0	.0	.0	.7	
1-2	.0	1.7	.6	.0	.0	.0	2.3		.2	3.9	.2	.0	.0	.0	4.3	
3-4	.0	2.2	1.4	.2	.0	.0	3.8		.0	1.2	1.7	.0	.0	.0	2.9	
5-6	.0	.0	.6	.2	.0	.0	.8		.0	.3	.3	.0	.0	.0	.6	
7	.2	.0	.5	.2	.0	.0	1.0		.1	.0	1.0	.2	.0	.0	1.3	
8-9	.0	.0	.0	.0	.2	.0	.4		.0	.0	.1	.0	.0	.0	.1	
10-11	.0	.0	.0	.0	.0	.0	.0		.0	.0	.0	.0	.0	.0	.0	
12	.0	.0	.0	.0	.0	.0	.0		.0	.0	.0	.2	.0	.0	.2	
13-16	.0	.0	.0	.0	.0	.0	.0		.0	.0	.0	.0	.0	.0	.0	
17-19	.0	.0	.0	.0	.0	.0	.0		.0	.0	.0	.0	.0	.0	.0	
20-22	.0	.0	.0	.0	.0	.0	.0		.0	.0	.0	.0	.0	.0	.0	
23-25	.0	.0	.0	.0	.0	.0	.0		.0	.0	.0	.0	.0	.0	.0	
26-32	.0	.0	.0	.0	.0	.0	.0		.0	.0	.0	.0	.0	.0	.0	
33-40	.0	.0	.0	.0	.0	.0	.0		.0	.0	.0	.0	.0	.0	.0	
41-48	.0	.0	.0	.0	.0	.0	.0		.0	.0	.0	.0	.0	.0	.0	
49-60	.0	.0	.0	.0	.0	.0	.0		.0	.0	.0	.0	.0	.0	.0	
61-70	.0	.0	.0	.0	.0	.0	.0		.0	.0	.0	.0	.0	.0	.0	
71-86	.0	.0	.0	.0	.0	.0	.0		.0	.0	.0	.0	.0	.0	.0	
87+	.0	.0	.0	.0	.0	.0	.0		.0	.0	.0	.0	.0	.0	.0	
TOT PCT	.9	5.1	3.0	.6	.4	.0	10.0		.3	6.2	3.3	.4	.0	.0	10.1	

HGT	E								SE							
	1-3	4-10	11-21	22-33	34-47	48+	PCT		1-3	4-10	11-21	22-33	34-47	48+	PCT	
<1	.4	.4	.0	.0	.0	.0	.8		.2	.3	.2	.0	.0	.0	.7	
1-2	.0	1.2	.6	.0	.0	.0	1.8		.0	.8	.1	.0	.0	.0	.9	
3-4	.0	.6	1.0	.0	.0	.0	1.6		.0	.5	.9	.0	.0	.0	1.4	
5-6	.0	.2	.7	.4	.0	.0	1.2		.0	.0	.7	.5	.0	.0	1.1	
7	.0	.2	.0	.0	.0	.0	.2		.0	.0	.1	.4	.0	.0	.5	
8-9	.0	.0	.2	.0	.0	.0	.2		.0	.0	.0	.0	.0	.0	.0	
10-11	.0	.0	.0	.0	.0	.0	.0		.0	.0	.0	.0	.0	.0	.0	
12	.0	.0	.0	.0	.0	.0	.0		.0	.0	.2	.0	.0	.0	.2	
13-16	.0	.0	.0	.0	.0	.0	.0		.0	.0	.0	.0	.0	.0	.0	
17-19	.0	.0	.0	.0	.0	.0	.0		.0	.0	.0	.0	.0	.0	.0	
20-22	.0	.0	.0	.0	.0	.0	.0		.0	.0	.0	.0	.0	.0	.0	
23-25	.0	.0	.0	.0	.0	.0	.0		.0	.0	.0	.0	.0	.0	.0	
26-32	.0	.0	.0	.0	.0	.0	.0		.0	.0	.0	.0	.0	.0	.0	
33-40	.0	.0	.0	.0	.0	.0	.0		.0	.0	.0	.0	.0	.0	.0	
41-48	.0	.0	.0	.0	.0	.0	.0		.0	.0	.0	.0	.0	.0	.0	
49-60	.0	.0	.0	.0	.0	.0	.0		.0	.0	.0	.0	.0	.0	.0	
61-70	.0	.0	.0	.0	.0	.0	.0		.0	.0	.0	.0	.0	.0	.0	
71-86	.0	.0	.0	.0	.0	.0	.0		.0	.0	.0	.0	.0	.0	.0	
87+	.0	.0	.0	.0	.0	.0	.0		.0	.0	.0	.0	.0	.0	.0	
TOT PCT	.4	2.5	2.4	.4	.0	.0	5.7		.2	1.7	2.1	.9	.0	.0	4.9	

PERIOD: (OVER-ALL) 1963-1972

AUGUST

AREA 0009 MELBOURNE SE  
38.45 146.8E

TABLE 18 (CONT)

PCT FREQ OF WIND SPEED (KTS) AND DIRECTION VERSUS SEA HEIGHTS (FT)

HGT	S							PCT	SW							PCT
	1-3	4-10	11-21	22-33	34-47	48+			1-3	4-10	11-21	22-33	34-47	48+		
<1	.0	.9	.0	.0	.0	.0		.9	.4	.8	.2	.0	.0	.0		1.4
1-2	.0	.6	.5	.0	.0	.0		1.1	.2	1.2	2.8	.0	.0	.0		4.2
3-4	.0	.4	.4	.0	.0	.0		.7	.0	1.1	3.6	.1	.0	.0		4.8
5-6	.0	.0	.6	.2	.0	.0		.8	.0	.4	3.1	.9	.0	.0		4.3
7	.0	.0	.6	.0	.4	.0		.9	.0	.0	.7	2.0	.1	.0		2.8
8-9	.0	.0	.0	.2	.0	.0		.2	.0	.0	.6	1.1	.4	.0		2.1
10-11	.0	.0	.0	.0	.0	.0		.0	.0	.0	.0	.5	.4	.0		.9
12	.0	.0	.0	.0	.0	.0		.0	.0	.0	.0	.3	.0	.0		.3
13-16	.0	.0	.0	.0	.0	.0		.0	.0	.0	.0	.2	.2	.0		.4
17-19	.0	.0	.0	.0	.0	.0		.0	.0	.0	.0	.0	.1	.0		.1
20-22	.0	.0	.0	.0	.0	.0		.0	.0	.0	.0	.0	.0	.0		.0
23-25	.0	.0	.0	.0	.0	.0		.0	.0	.0	.0	.0	.0	.0		.0
26-32	.0	.0	.0	.0	.0	.0		.0	.0	.0	.0	.0	.0	.0		.0
33-40	.0	.0	.0	.0	.0	.0		.0	.0	.0	.0	.0	.0	.0		.0
41-48	.0	.0	.0	.0	.0	.0		.0	.0	.0	.0	.0	.0	.0		.0
49-60	.0	.0	.0	.0	.0	.0		.0	.0	.0	.0	.0	.0	.0		.0
61-70	.0	.0	.0	.0	.0	.0		.0	.0	.0	.0	.0	.0	.0		.0
71-86	.0	.0	.0	.0	.0	.0		.0	.0	.0	.0	.0	.0	.0		.0
87+	.0	.0	.0	.0	.0	.0		.0	.0	.0	.0	.0	.0	.0		.0
TOT PCT	.0	1.9	2.1	.4	.4	.0		4.7	.6	3.5	10.9	5.0	1.1	.0		21.2

HGT	W							PCT	NW							TOTAL PCT
	1-3	4-10	11-21	22-33	34-47	48+			1-3	4-10	11-21	22-33	34-47	48+		
<1	.2	1.5	.0	.0	.0	.0		1.7	.7	.9	.0	.0	.0	.0		1.6
1-2	.4	3.2	1.4	.0	.0	.0		5.0	.0	2.5	.3	.0	.0	.0		2.8
3-4	.0	.5	4.6	.3	.0	.0		5.4	.0	1.1	1.0	.1	.0	.0		2.1
5-6	.0	.2	4.1	1.6	.0	.0		5.9	.0	.0	1.6	.7	.2	.0		2.4
7	.0	.0	.9	1.7	.4	.0		3.0	.0	.0	.4	1.5	.0	.0		1.9
8-9	.0	.0	1.1	.8	.2	.0		2.1	.0	.0	.2	.7	.2	.0		1.1
10-11	.0	.0	.0	1.3	.2	.0		1.6	.0	.0	.0	.2	.2	.0		.4
12	.0	.0	.0	.4	.0	.0		.4	.0	.0	.0	.4	.0	.0		.4
13-16	.0	.0	.2	.2	.2	.0		.6	.0	.0	.0	.0	.0	.0		.0
17-19	.0	.0	.0	.2	.0	.0		.3	.0	.1	.0	.0	.0	.0		.1
20-22	.0	.0	.0	.0	.0	.0		.0	.0	.0	.0	.0	.0	.0		.0
23-25	.0	.0	.0	.0	.0	.0		.0	.0	.0	.0	.0	.0	.0		.0
26-32	.0	.0	.0	.0	.0	.0		.0	.0	.0	.0	.0	.0	.0		.0
33-40	.0	.0	.0	.0	.0	.0		.0	.0	.0	.0	.0	.0	.0		.0
41-48	.0	.0	.0	.0	.0	.0		.0	.0	.0	.0	.0	.0	.0		.0
49-60	.0	.0	.0	.0	.0	.0		.0	.0	.0	.0	.0	.0	.0		.0
61-70	.0	.0	.0	.0	.0	.0		.0	.0	.0	.0	.0	.0	.0		.0
71-86	.0	.0	.0	.0	.0	.0		.0	.0	.0	.0	.0	.0	.0		.0
87+	.0	.0	.0	.0	.0	.0		.0	.0	.0	.0	.0	.0	.0		.0
TOT PCT	.6	5.5	12.4	6.2	1.2	.0		25.9	.7	4.5	3.4	3.5	.6	.0		95.2

WIND SPEED (KTS) VS SEA HEIGHT (FT)

HGT	0-3	4-10	11-21	22-33	34-47	48+	PCT	TOT DBS
<1	9.1	6.5	.4	.0	.0	.0	.0	16.0
1-2	.8	14.8	6.3	.0	.0	.0	.0	21.9
3-4	.0	7.5	14.2	.6	.0	.0	.0	22.3
5-6	.0	1.0	11.4	4.3	.2	.0	.0	16.8
7	.2	.2	4.1	5.9	1.0	.0	.0	11.4
8-9	.0	.2	2.0	2.6	1.0	.0	.0	5.9
10-11	.0	.0	.0	2.0	.8	.0	.0	2.8
12	.0	.0	.2	1.2	.0	.0	.0	1.4
13-16	.0	.0	.2	.4	.4	.0	.0	1.0
17-19	.0	.0	.0	.0	.2	.0	.0	.4
20-22	.0	.0	.0	.0	.0	.0	.0	.0
23-25	.0	.0	.0	.0	.0	.0	.0	.0
26-32	.0	.0	.0	.0	.0	.0	.0	.0
33-40	.0	.0	.0	.0	.0	.0	.0	.0
41-48	.0	.0	.0	.0	.0	.0	.0	.0
49-60	.0	.0	.0	.0	.0	.0	.0	.0
61-70	.0	.0	.0	.0	.0	.0	.0	.0
71-86	.0	.0	.0	.0	.0	.0	.0	.0
87+	.0	.0	.0	.0	.0	.0	.0	.0
TOT PCT	10.1	30.4	38.7	17.0	3.7	.0	100.0	493

PERIOD: (OVER-ALL) 1949-1972

TABLE 19

PERCENT FREQUENCY OF WAVE HEIGHT (FT) VS WAVE PERIOD (SECONDS)

PERIOD (SEC)	<1	1-2	3-4	5-6	7	8-9	10-11	12	13-16	17-19	20-22	23-25	26-32	33-40	41-48	49-60	61-70	71-86	87+	TOTAL	MEAN HGT
<6	2.7	10.2	10.7	5.5	2.7	1.8	.7	.3	.0	.5	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	210
6-7	.0	1.0	4.8	9.0	5.3	3.0	1.8	1.2	.8	.0	.3	.0	.0	.0	.0	.0	.0	.0	.0	.0	164
8-9	.0	.8	1.3	3.5	4.3	3.7	2.0	1.5	.3	.2	.2	.0	.0	.0	.0	.0	.0	.0	.0	.0	108
10-11	.0	.2	.8	1.0	1.2	1.7	.3	1.0	.7	.0	.2	.0	.0	.0	.0	.0	.0	.0	.0	.0	42
12-13	.0	.0	.5	.5	.2	.7	.3	.0	1.0	.2	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	20
>13	.0	.0	.0	.0	.0	.0	.0	.2	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	1
INDET	1.7	1.3	1.5	2.0	1.2	.2	.7	.2	.3	.0	.0	.0	.0	.2	.0	.0	.0	.0	.0	.0	55
TOTAL	26	81	118	129	89	66	35	26	19	5	4	0	1	1	0	0	0	0	0	0	600
PCT	4.3	13.5	19.7	21.5	14.8	11.0	5.8	4.3	3.2	.8	.7	.0	.2	.2	.0	.0	.0	.0	.0	.0	100.0

SEPTEMBER

PERIOD: (PRIMARY) 1909-1971  
(OVER-ALL) 1854-1971

AREA 0009 MELBOURNE SE  
38.45 146.9E

TABLE 1

PERCENT FREQUENCY OF WEATHER OCCURRENCE BY WIND DIRECTION

WIND DIR	PRECIPITATION TYPE							OTHER WEATHER PHENOMENA							
	RAIN	RAIN SHWR	DRZL	FRZG PCPN	SNOW	OTHER FRZN PCPN	HAIL	PCPN AT OB TIME	PCPN PAST HOUR	THOR LTNG	FOG WD PCPN	FOG WD PCPN PAST HR	SMOKE HAZE	SPRAY BLWG DUST	NO SIG WEA
N	3.0	1.9	.5	.0	.0	.0	.0	5.4	.0	1.7	2.8	.0	1.5	.0	88.6
NE	5.2	1.7	2.6	.0	.0	.0	.0	9.5	.9	1.5	3.8	.0	2.3	.0	82.6
E	1.5	3.3	2.6	.0	.0	.0	.0	7.4	.6	1.8	.7	.0	1.8	.0	87.7
SE	2.5	5.5	1.6	.0	.0	.0	.0	9.6	3.6	2.2	.5	.0	3.3	.0	82.0
S	3.3	7.5	3.3	.0	.0	.0	.4	14.6	1.5	.0	1.3	.0	1.3	.0	81.4
SW	4.3	12.7	1.2	.0	.0	.0	.7	18.6	2.5	.5	1.1	.0	.8	.0	76.5
W	5.0	10.3	1.3	.0	.0	.0	.3	16.7	3.1	.6	.8	.0	.7	.0	78.3
NW	4.2	7.7	1.0	.0	.0	.0	.0	12.9	1.1	2.6	.8	.0	.4	.0	82.3
VAR	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
CALM	.0	.0	.0	.0	.0	.0	.0	.0	.0	3.4	13.8	.0	5.9	.0	75.9
TOT PCT	4.1	7.7	1.5	.0	.0	.0	.3	13.4	1.9	1.2	1.6	.0	1.3	.0	80.9
TOT OBS: 1996															

TABLE 2

PERCENT FREQUENCY OF WEATHER OCCURRENCE BY HOUR

HOUR (GMT)	PRECIPITATION TYPE							OTHER WEATHER PHENOMENA							
	RAIN	RAIN SHWR	DRZL	FRZG PCPN	SNOW	OTHER FRZN PCPN	HAIL	PCPN AT OB TIME	PCPN PAST HOUR	THOR LTNG	FOG WD PCPN	FOG WD PCPN PAST HR	SMOKE HAZE	SPRAY BLWG DUST	NO SIG WEA
0000	4.0	6.4	1.3	.0	.0	.0	.6	12.3	2.1	.2	2.6	.0	1.9	.0	80.9
0600	4.8	7.0	1.7	.0	.0	.0	.0	13.3	2.2	1.2	1.5	.0	1.7	.0	80.5
1200	4.0	7.3	1.4	.0	.0	.0	.2	13.0	2.1	1.9	.7	.0	.5	.0	82.0
1800	3.9	9.6	1.4	.0	.0	.0	.2	14.9	.9	1.8	2.3	.0	.9	.0	79.4
TOT PCT	4.2	7.6	1.5	.0	.0	.0	.2	13.5	1.8	1.3	1.8	.0	1.3	.0	80.6
TOT OBS: 2058															

TABLE 3

PERCENTAGE FREQUENCY OF WIND DIRECTION BY SPEED AND BY HOUR

WIND DIR	WIND SPEED (KNOTS)							TOTAL OBS	PCT FREQ	MEAN SPD	HOUR (GMT)							
	0-3	4-10	11-21	22-33	34-47	48+					00	03	06	09	12	15	18	21
N	1.0	4.8	3.0	.6	*	*		9.4	10.4		7.6	11.1	5.4	7.6	7.6	9.7	11.9	12.9
NE	1.2	5.4	4.1	.9	.1	.0		11.6	11.1		16.5	12.9	9.4	12.7	13.9	11.8	9.9	9.5
E	.4	3.7	2.7	.5	*	.0		6.8	10.6		6.4	5.2	8.7	9.4	7.1	7.6	5.0	5.0
SE	.6	2.4	1.3	.4	*	.0		4.8	10.4		4.1	4.8	6.5	6.3	4.8	4.8	3.0	3.7
S	.8	2.4	2.2	.6	.1	.0		6.1	12.0		5.3	5.9	8.8	7.3	5.0	5.8	5.3	3.4
SW	.8	6.5	8.6	4.9	1.1	.2		22.1	16.5		13.9	21.3	26.9	24.1	22.5	21.6	20.6	21.3
W	.7	6.7	9.2	5.7	1.7	.1		24.2	17.3		28.6	24.8	23.6	18.4	28.1	21.2	25.3	29.3
NW	.6	5.3	5.0	1.9	.4	.1		13.2	14.1		16.2	12.4	8.9	10.9	8.6	16.4	16.1	17.4
VAR	.0	.0	.0	.0	.0	.0		.0	.0		.0	.0	.0	.0	.0	.0	.0	.0
CALM	1.9							1.9	.0		1.4	1.6	1.9	3.3	2.5	1.2	1.9	1.6
TOT OBS	246	1150	1099	477	109	12	3093		13.9		221	497	523	400	236	347	486	383
TOT PCT	8.0	37.2	35.5	15.4	3.5	.4		100.0			100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0

TABLE 3A

WIND DIR	WIND SPEED (KNOTS)					TOTAL OBS	PCT FREQ	MEAN SPD	HOUR (GMT)				
	0-6	7-16	17-27	28-40	41+				00	06	12	18	21
N	3.0	4.7	1.4	.2	*		9.4	10.4	10.0	6.3	8.8	12.4	
NE	3.2	6.1	1.9	.3	*		11.6	11.1	14.0	10.8	12.7	9.7	
E	2.1	3.5	1.0	.2	.0		6.8	10.6	5.6	9.0	7.4	5.0	
SE	1.9	2.0	.6	.2	.0		4.8	10.4	4.6	6.4	4.8	3.3	
S	1.8	2.7	1.2	*	*		6.1	12.0	5.7	8.2	5.4	4.5	
SW	3.4	8.6	6.4	3.0	.6		22.1	16.5	19.0	25.7	22.0	20.9	
W	3.1	9.3	7.9	3.2	.7		24.2	17.3	26.0	21.3	24.0	25.9	
NW	2.6	6.1	3.2	1.1	.2		13.2	14.1	13.5	9.8	13.3	16.7	
VAR	.0	.0	.0	.0	.0		.0	.0	.0	.0	.0	.0	
CALM	1.9						1.9	.0	1.5	2.5	1.7	1.7	
TOT OBS	711	1332	736	269	45	3093		13.9	718	923	583	869	
TOT PCT	23.0	43.1	23.8	8.7	1.5		100.0		100.0	100.0	100.0	100.0	

SEPTEMBER

PERIOD: (PRIMARY) 1909-1971  
(OVER-ALL) 1854-1971AREA 0009 MELBOURNE SE  
38.45 146.9F

TABLE 4

PERCENTAGE FREQUENCY OF WIND SPEED BY HOUR (GMT)

HOUR	CALM	1-3	4-10	WIND SPEED (KNOTS)			48+	MEAN	PCT FREQ	TOTAL OBS
				11-21	22-33	34-47				
00003	1.5	6.3	35.4	37.3	15.5	3.8	.3	14.1	100.0	718
06009	2.5	6.9	37.6	32.7	15.8	4.0	.4	13.9	100.0	923
12015	1.7	5.7	37.9	35.5	16.0	2.9	.3	13.8	100.0	883
18021	1.7	5.2	37.7	37.1	14.6	3.2	.5	13.6	100.0	869
TOT	59	187	1150	1099	477	109	12	13.9		3093
PCT	1.9	6.0	37.2	35.5	15.4	3.5	.4		100.0	

TABLE 5

PCT FREQ OF TOTAL CLOUD AMOUNT (EIGHTHS)  
BY WIND DIRECTION

WIND DIR	0-2	3-4	5-7	8 & 6	TOTAL	MEAN CLOUD COVER
N	3.4	1.1	2.5	1.3		4.0
NE	4.3	1.8	3.3	2.8		4.3
E	2.6	1.2	1.9	1.7		4.3
SE	.7	.2	2.1	1.4		5.8
S	1.0	2.0	1.9	2.1		5.1
SW	4.4	4.6	6.9	3.0		4.5
W	7.9	5.0	10.6	4.4		4.5
NW	3.3	1.8	4.6	2.5		4.9
VAR	.0	.0	.0	.0		.0
CALM	.4	.5	.4	.4		4.2
TOT OBS	220	145	270	154	789	
TOT PCT	27.9	18.4	34.2	19.5	100.0	4.6

TABLE 6

PERCENTAGE FREQUENCY OF CEILING HEIGHTS (FT/NH >4/8)  
AND OCCURRENCE OF NH <5/8 BY WIND DIRECTION

BY WIND DIRECTION										AND OCCURRENCE OF NH <5/8 BY WIND DIRECTION									
WIND DIR	0-2	3-4	5-7	8 & OBSCD	TOTAL OBS	MEAN CLOUD COVER	000	150	300	600	1000	2000	3500	5000	6500	NH <5/8 ANY HGT	TOTAL OBS		
							149	299	599	999	1999	3499	4999	6499	7999				
N	3.4	1.1	2.5	2.8	4.0	4.0	.0	.0	.0	.2	1.1	.3	.5	.1	.1	.3	5.7		
NE	4.3	1.8	3.3	2.3	4.3	4.3	.0	.0	.3	.3	1.6	.6	.8	.3	.0	.3	8.1		
E	2.6	1.2	1.9	1.7	4.3	4.3	.0	.0	.1	.2	1.3	.7	.1	.1	.0	.3	4.7		
SE	.7	.2	1.1	1.4	5.8	5.8	.0	.0	.0	.8	.7	.7	.9	.0	.0	.1	1.3		
S	1.0	2.0	1.9	2.1	5.1	5.1	.0	.0	.0	.3	1.8	.6	.4	.0	.0	.2	3.8		
SW	4.4	4.6	6.9	3.0	4.5	4.5	.1	.0	.4	1.3	3.8	1.5	.5	.2	.0	*	11.0		
W	7.9	5.0	10.6	4.4	4.5	4.5	.0	.0	.0	1.9	5.5	1.9	.9	.2	.0	.1	17.4		
NW	3.3	1.8	4.6	2.5	4.9	4.9	.0	.0	.1	1.0	1.9	1.1	.2	.3	*	.5	6.9		
VAR	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0		
CALM	.0	.5	.4	.4	4.6	4.6	.0	.0	.0	.0	.5	.0	.1	.0	.0	.0	1.0		
TOT OBS	220	145	270	154	789	4.6	1	0	7	47	144	58	35	9	1	14	473		
TOT PCT	27.9	18.4	34.2	19.5	100.0		.1	.0	.9	6.0	18.3	7.4	4.4	1.1	.1	1.8	59.9		
																	100.0		

TABLE 7

CUMULATIVE PCT FREQ OF SIMULTANEOUS OCCURRENCE  
OF CEILING HEIGHT (NH >4/8) AND VSBY (NM)

CEILING (FEET)	VSBY (NM)							
	>10	>5	>2	>1	>1/2	>1/4	>50YD	>0
>4500	1.6	1.9	1.9	1.9	1.9	1.9	1.9	1.9
>4000	2.5	3.0	3.0	3.0	3.0	3.0	3.0	3.0
>3500	5.8	7.3	7.6	7.6	7.6	7.6	7.6	7.6
>3000	12.2	14.7	14.9	14.9	14.9	14.9	14.9	14.9
>2500	25.7	31.5	32.6	32.6	32.7	32.7	32.7	32.7
>2000	29.4	36.9	38.3	38.4	38.6	38.6	38.6	38.6
>1500	30.0	37.9	39.3	39.4	39.6	39.6	39.6	39.6
>1000	30.0	37.9	39.3	39.4	39.6	39.6	39.6	39.6
>500	30.0	38.1	39.4	39.6	39.7	39.7	39.7	39.7
TOTAL	241	306	317	318	319	319	319	319

TOTAL NUMBER OF OBS: 804

PCT FREQ NH &lt;5/8: 60.3

TABLE 7A

PERCENTAGE FREQ OF LOW CLOUDS (EIGHTHS)

0	1	2	3	4	5	6	7	8	OBS	TOTAL
12.8	13.8	13.7	10.8	8.4	8.5	8.1	9.5	14.3	.1	901

SEPTEMBER

PERIOD: (PRIMARY) 1909-1971  
(OVER-ALL) 1854-1971

AREA 0009 MELBOURNE SE  
38.45 146.9E

TABLE 8

PERCENT FREQ OF WIND DIRECTION VS OCCURRENCE OR NON-OCCURRENCE OF  
PRECIPITATION WITH VARYING VALUES OF VISIBILITY

VSBY (NM)		N	NE	E	SE	S	SW	W	NW	VAR	CALM	PCT	TOTAL OBS
<1/2	PCP	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
	NO PCP	.0	.0	.0	.0	.0	.0	.0	.0	.0	.1	.1	.1
	TOT %	.0	.0	.0	.0	.0	.0	.0	.0	.0	.1	.1	.1
1/2<1	PCP	.0	.0	.0	.0	.1	.2	.1	.0	.0	.0	.3	.3
	NO PCP	.2	.3	.1	.0	.1	.1	.1	.1	.0	.1	1.0	1.0
	TOT %	.2	.3	.1	.0	.1	.2	.2	.1	.0	.1	1.2	1.2
1<2	PCP	.1	.0	.0	.0	.0	.0	.1	.0	.0	.0	.2	.2
	NO PCP	.1	.1	.1	.2	.1	.2	.2	.1	.0	.1	.8	.8
	TOT %	.1	.1	.1	.2	.1	.2	.3	.1	.0	.1	1.0	1.0
2<5	PCP	.0	.1	.0	.1	.1	.1	.3	.1	.0	.0	.8	.8
	NO PCP	.3	.1	.0	.1	.1	.1	.2	.1	.0	.1	.9	.9
	TOT %	.3	.2	.0	.1	.2	.2	.4	.2	.0	.1	1.7	1.7
5<10	PCP	.4	.7	.4	.3	.5	2.9	2.8	1.1	.0	.0	9.1	9.1
	NO PCP	2.7	2.7	2.3	1.6	1.5	6.4	7.7	4.5	.0	.5	29.8	29.8
	TOT %	3.2	3.3	2.7	1.8	2.0	9.2	10.5	5.6	.0	.5	38.8	38.8
10+	PCP	.1	.4	.1	.1	.2	.9	1.0	.4	.0	.0	3.1	3.1
	NO PCP	5.6	7.4	3.9	2.4	3.5	11.0	12.9	6.7	.0	.8	54.2	54.2
	TOT %	5.6	7.8	4.0	2.5	3.7	11.9	13.9	7.1	.0	.8	57.3	57.3
TOT OBS													
TOT PCT													
		9.3	11.7	6.8	4.6	6.0	21.8	25.4	13.1	.0	1.5	100.0	1996

TABLE 9

PERCENT FREQ OF WIND DIRECTION VS WIND SPEED  
WITH VARYING VALUES OF VISIBILITY

VSBY (NM)	SPD KTS	N	NE	E	SE	S	SW	W	NW	VAR	CALM	PCT	TOTAL OBS
<1/2	0-3	.0	.0	.0	.0	.0	.0	.0	.0	.0	.1	.1	.1
	4-10	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
	11-21	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
	22+	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
	TOT %	.0	.0	.0	.0	.0	.0	.0	.0	.0	.1	.1	.1
1/2<1	0-3	.1	.1	.0	.0	.0	.1	.0	.0	.0	.1	.2	.2
	4-10	.1	.1	.1	.0	.0	.1	.1	.1	.0	.0	.5	.5
	11-21	.0	.1	.0	.0	.0	.1	.1	.0	.0	.0	.2	.2
	22+	.0	.0	.0	.0	.0	.1	.1	.0	.0	.0	.3	.3
	TOT %	.2	.2	.1	.0	.1	.2	.2	.1	.0	.1	1.2	1.2
1<2	0-3	.0	.0	.0	.0	.0	.1	.0	.0	.0	.1	.1	.1
	4-10	.1	.1	.1	.1	.1	.1	.1	.1	.0	.1	.4	.4
	11-21	.0	.0	.0	.0	.0	.1	.1	.0	.0	.0	.2	.2
	22+	.0	.0	.0	.0	.0	.1	.1	.0	.0	.0	.2	.2
	TOT %	.1	.1	.1	.1	.1	.2	.2	.1	.0	.1	.9	.9
2<5	0-3	.1	.1	.0	.1	.1	.1	.0	.0	.0	.1	.3	.3
	4-10	.1	.1	.1	.1	.1	.1	.1	.1	.0	.1	.4	.4
	11-21	.0	.1	.0	.0	.0	.1	.1	.1	.0	.0	.4	.4
	22+	.1	.1	.0	.1	.1	.1	.1	.1	.0	.1	.8	.8
	TOT %	.2	.2	.1	.2	.2	.2	.2	.2	.0	.2	1.8	1.8
5<10	0-3	.3	.4	.2	.1	.3	.3	.1	.1	.0	.4	2.3	2.3
	4-10	1.5	1.3	.8	.7	.7	2.2	2.0	2.2	.0	.0	11.4	11.4
	11-21	.9	.9	1.1	.6	.7	2.4	3.1	1.8	.0	.0	11.6	11.6
	22+	.2	.5	.4	.2	.2	3.7	4.2	1.1	.0	.0	10.6	10.6
	TOT %	2.9	3.2	2.4	1.6	1.9	8.6	9.6	5.3	.0	.4	35.9	35.9
10+	0-3	.6	.9	.3	.5	.4	.4	.5	.4	.0	.9	5.0	5.0
	4-10	3.1	4.1	2.7	1.3	1.4	4.1	4.2	3.4	.0	.0	24.4	24.4
	11-21	1.8	2.9	1.1	.5	1.5	6.0	6.3	3.2	.0	.0	23.2	23.2
	22+	.4	.3	.1	.2	.3	2.0	3.2	1.0	.0	.0	7.5	7.5
	TOT %	6.0	8.3	4.2	2.4	3.6	12.6	14.2	8.0	.0	.9	60.1	60.1
TOT OBS													
TOT PCT													
		9.4	11.9	6.8	4.3	5.8	21.8	24.9	13.7	.0	1.5	100.0	2233



SEPTEMBER

PERIOD: (PRIMARY) 1909-1971  
(OVER-ALL) 1854-1971

AREA 0009 MELBOURNE SE  
38.45 146.9E

TABLE 10

PERCENT FREQUENCY OF CEILING HEIGHTS (FEET, NH >4/8) AND  
OCCURRENCE OF NH <5/8 BY HOUR

HOUR (GMT)	000 149	150 299	300 599	600 999	1000 1999	2000 3499	3500 4999	5000 6499	6500 7999	8000+	TOTAL	NH <5/8 ANY	TOTAL DBS
00003	.0	.0	1.7	5.7	17.8	6.5	7.0	1.7	.4	3.0	43.9	56.1	230
06009	.0	.0	.4	7.4	15.6	6.5	4.8	.0	.0	1.3	35.9	64.1	231
12015	.5	.0	.9	4.1	16.1	6.9	2.8	.9	.0	1.4	33.5	66.5	218
18021	.0	.0	.6	4.5	18.2	8.0	2.3	1.7	.0	.6	35.8	64.2	176
TOT	1	0	8	47	144	59	37	9	1	14	320	535	855
PCT	.1	.0	.9	5.5	16.8	6.9	4.3	1.1	.1	1.6	37.4	62.6	100.0

TABLE 11

PERCENT FREQUENCY VSBY (NM) BY HOUR

HOUR (GMT)	<1/2	1/2<1	1<2	2<5	5<10	10+	TOTAL DBS
00003	.2	1.4	1.0	1.6	30.5	65.4	509
06009	.1	1.5	1.3	2.1	41.0	54.0	676
12015	.2	.4	.6	1.7	31.9	65.1	470
18021	.0	1.9	.8	1.9	38.6	56.9	640
TOT	3	31	22	42	829	1368	2295
PCT	.1	1.4	1.0	1.8	36.1	59.6	100.0

TABLE 12

CUMULATIVE PCT FREQ OF RANGES OF VSBY (NM) AND/OR  
CEILING HGT (FEET, NH >4/8), BY HOUR

HOUR (GMT)	<150 <3000	<600 <1	<1000 <5	1000+ AND5+	NH <5/8 AND 5+	TOTAL DBS
00003	.0	2.7	10.8	35.9	53.4	223
06009	.0	.5	9.9	28.8	61.3	212
12015	.5	1.5	6.4	29.6	64.0	203
18021	.0	.6	7.2	31.3	61.4	166
TOT	1	11	70	253	481	804
PCT	.1	1.4	8.7	31.5	59.8	100.0

TABLE 13

PERCENT FREQUENCY OF RELATIVE HUMIDITY BY TEMP

TEMP F	0-29	30-39	40-49	50-59	60-69	70-79	80-89	90-100	TOTAL DBS	PCT FREQ
70/74	.0	.0	.0	.2	.0	.0	.0	.0	2	.2
65/69	.0	.0	.2	.2	.2	.3	.4	.2	20	1.6
60/64	.0	.0	.2	.8	2.6	3.1	3.5	1.2	145	11.3
55/59	.0	.0	.2	1.9	8.1	15.4	14.6	5.6	577	45.1
50/54	.0	.0	.1	1.1	6.4	9.6	15.2	6.4	496	38.8
45/49	.0	.0	.0	.2	.3	.9	.9	.6	37	2.9
40/44	.0	.0	.0	.0	.0	.0	.0	.1	1	.1
TOTAL	0	0	9	48	225	374	442	180	1278	100.0
PCT	.0	.0	.7	3.8	17.6	29.3	34.6	14.1		

TABLE 14

PERCENT FREQUENCY OF WIND DIRECTION BY TEMP

	N	NE	E	SE	S	SW	W	NW	VAR	CALM
70/74	.1	.3	.0	.0	.0	.0	.0	.0	.0	.0
65/69	.5	.3	.1	.0	.1	.2	.3	.1	.0	.0
60/64	2.6	3.5	1.0	.4	.4	.6	1.6	.9	.0	.3
55/59	4.5	6.9	3.2	2.0	2.5	7.6	10.7	6.9	.0	.9
50/54	1.6	2.3	2.0	2.3	2.5	10.4	12.2	4.8	.0	.7
45/49	.2	.2	.3	.3	.3	1.3	.9	.2	.0	.0
40/44	.0	.0	.0	.0	.0	.1	.0	.0	.0	.0
TOTAL	9.5	13.1	6.3	4.7	5.6	20.2	25.8	12.9	.0	2.0

TABLE 15

MEANS, EXTREMES AND PERCENTILES OF TEMP (DEG F) BY HOUR

HOUR (GMT)	MAX	99%	95%	50%	5%	1%	MIN	MEAN	TOTAL DBS
00003	72	68	63	56	50	48	46	55.3	697
06009	71	66	63	55	50	48	45	55.0	906
12015	65	63	60	54	50	48	47	54.3	591
18021	68	62	59	53	48	46	44	53.6	876
TOT	72	65	62	55	50	47	44	55.1	3070

TABLE 16

PERCENT FREQUENCY OF RELATIVE HUMIDITY BY HOUR

HOUR (GMT)	0-29	30-39	60-69	70-79	80-89	90-100	MEAN	TOTAL DBS
00003	.0	5.6	19.7	30.1	36.7	7.8	77	319
06009	.0	6.2	22.0	28.4	29.2	14.2	77	373
12015	.0	2.8	12.2	31.5	37.1	16.4	80	286
18021	.0	2.7	14.4	26.6	37.4	18.9	80	334
TOT	0	58	228	381	457	188	79	1312

SEPTEMBER

PERIOD: (PRIMARY) 1909-1971  
(OVER-ALL) 1854-1971

TABLE 17

AREA 0009 MELBOURNE SE  
38.45 146.9E

PCT FREQ OF AIR TEMPERATURE (DEG F) AND THE OCCURRENCE OF FOG (WITHOUT PRECIPITATION)  
VS AIR-SEA TEMPERATURE DIFFERENCE (DEG F)

AIR-SEA TMP DIF	45 48	49 52	53 56	57 60	61 64	65 68	69 72	TOT	W FOG	WD FOG
14/16	.0	.0	.0	.0	.0	.1	.0	1	.0	.1
11/13	.0	.0	.0	.1	.0	.3	.1	8	.0	.5
9/10	.0	.0	.0	.2	.6	.5	.0	22	.1	1.2
7/8	.0	.0	.0	.3	1.1	.3	.1	30	.1	1.7
6	.0	.0	.1	.3	.9	.0	.0	23	.1	1.3
5	.0	.0	.2	1.5	.9	.1	.0	45	.1	2.5
4	.0	.1	.5	3.1	1.0	.0	.0	81	.0	4.7
3	.0	.1	1.2	3.9	.4	.0	.0	95	.1	5.5
2	.0	.2	4.7	5.4	.6	.0	.0	187	.2	10.7
1	.0	.4	5.0	3.3	.6	.0	.0	159	.3	8.9
0	.0	1.9	12.0	3.4	.3	.0	.0	303	.2	17.4
-1	.0	1.6	9.7	1.2	.1	.0	.0	214	.2	12.3
-2	.1	4.8	5.2	.6	.1	.0	.0	187	.2	10.7
-3	.0	4.4	3.2	.6	.0	.0	.0	141	.1	8.1
-4	.2	2.8	1.5	.5	.0	.0	.0	86	.0	5.0
-5	.5	2.1	.8	.1	.0	.0	.0	59	.1	3.4
-6	.3	1.0	.5	.0	.0	.0	.0	31	.0	1.8
-7/-8	.3	.8	.6	.1	.0	.0	.0	30	.0	1.7
-9/-10	.0	.4	.1	.0	.0	.0	.0	8	.0	.5
-11/-13	.2	.1	.0	.0	.0	.0	.0	5	.0	.3
-14/-16	.2	.0	.0	.0	.0	.0	.0	3	.0	.2
TOTAL	30	352	778	422	112	21	3	1718	29	1689
PCT	1.7	20.5	45.3	24.6	6.5	1.2	.2	100.0	1.7	98.3

PERIOD: (OVER-ALL) 1963-1971

TABLE 18

PCT FREQ OF WIND SPEED (KTS) AND DIRECTION VERSUS SEA HEIGHTS (FT)

HGT	1-3	4-10	11-21	22-33	34-47	48+	PCT	1-3	4-10	11-21	22-33	34-47	48+	PCT
<1	.3	.8	.0	.0	.0	.0	1.1	1.0	1.3	.2	.0	.0	.0	2.4
1-2	.0	1.2	.9	.0	.0	.0	2.1	.0	3.1	1.4	.0	.0	.0	4.5
3-4	.0	.6	1.5	.3	.0	.0	2.5	.0	1.1	1.2	.4	.0	.0	2.8
5-6	.0	.0	.5	.1	.0	.0	.6	.0	.2	2.0	.4	.0	.0	2.6
7	.0	.0	.7	.0	.0	.0	.7	.0	.0	.2	.0	.0	.0	.2
8-9	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
10-11	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
12	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
13-16	.0	.0	.0	.2	.0	.0	.2	.0	.0	.0	.0	.0	.0	.0
17-19	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
20-22	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
23-25	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
26-32	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
33-40	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
41-48	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
49-60	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
61-70	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
71-86	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
87+	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
TOT PCT	.3	2.7	3.6	.6	.0	.0	7.2	1.0	5.7	4.9	.8	.0	.0	12.4

HGT	1-3	4-10	11-21	22-33	34-47	48+	PCT	1-3	4-10	11-21	22-33	34-47	48+	PCT
<1	.0	.4	.0	.0	.0	.0	.4	.0	.4	.0	.0	.0	.0	.4
1-2	.0	2.7	.5	.0	.0	.0	3.1	.0	1.7	.0	.0	.0	.0	1.7
3-4	.0	1.2	.7	.0	.0	.0	1.9	.0	.4	.4	.0	.0	.0	.8
5-6	.0	.0	.5	.0	.0	.0	.5	.0	.2	.4	.0	.0	.0	.6
7	.0	.0	.2	.2	.2	.0	.5	.0	.0	.2	.2	.0	.0	.4
8-9	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
10-11	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
12	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
13-16	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
17-19	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
20-22	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
23-25	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
26-32	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
33-40	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
41-48	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
49-60	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
61-70	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
71-86	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
87+	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
TOT PCT	.0	4.3	1.8	.2	.2	.0	6.5	.0	2.7	1.0	.2	.0	.0	3.9

PERIOD: (OVER-ALL) 1963-1971

SEPTEMBER

AREA 0009 MELBOURNE SE  
38.45 146.9E

TABLE 18 (CONT)

PCT FREQ OF WIND SPEED (KTS) AND DIRECTION VERSUS SEA HEIGHTS (FT)

HGT	S							PCT	SW							PCT
	1-3	4-10	11-21	22-33	34-47	48+			1-3	4-10	11-21	22-33	34-47	48+		
<1	.5	.1	.0	.0	.0	.0	.7	.2	1.0	.0	.0	.0	.0	.0	.0	1.2
1-2	.2	.4	.0	.0	.0	.0	.5	.2	1.3	1.1	.0	.0	.0	.0	.0	2.6
3-4	.0	1.0	1.5	.2	.0	.0	2.6	.0	1.3	4.5	.3	.0	.0	.0	.0	6.0
5-6	.0	.0	1.1	.3	.0	.0	1.4	.0	.4	3.2	1.1	.0	.0	.0	.0	4.7
7	.0	.0	.0	.0	.0	.0	.0	.0	.2	1.2	1.5	.0	.0	.0	.0	2.9
8-9	.0	.0	.4	.0	.0	.0	.4	.0	.0	.0	.5	.0	.0	.0	.0	.5
10-11	.0	.0	.2	.2	.0	.0	.4	.0	.0	.0	.1	.0	.0	.0	.0	.1
12	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.2	.0	.0	.0	.0	.2
13-16	.0	.0	.0	.0	.0	.0	.0	.0	.2	.0	.2	.3	.1	.1	.7	.7
17-19	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
20-22	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
23-25	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
26-32	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
33-40	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
41-48	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
49-60	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
61-70	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
71-86	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
87+	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
TOT PCT	.7	1.5	3.1	.7	.0	.0	5.9	.4	4.4	10.0	3.8	.3	.1	.0	19.0	

HGT	W							PCT	NW							PCT	TOTAL PCT
	1-3	4-10	11-21	22-33	34-47	48+			1-3	4-10	11-21	22-33	34-47	48+			
<1	.0	.3	.2	.0	.0	.0	.5	.0	.3	.0	.0	.0	.0	.0	.0	.3	
1-2	.3	1.1	2.1	.0	.0	.0	3.6	.0	1.8	1.6	.0	.0	.0	.0	.0	3.4	
3-4	.2	1.9	4.5	1.3	.0	.0	7.9	.0	1.2	2.0	.5	.0	.0	.0	.0	3.7	
5-6	.0	.3	5.2	3.1	.3	.0	8.9	.0	.2	1.7	.2	.0	.0	.0	.0	2.1	
7	.0	.2	1.0	2.0	.8	.0	3.9	.0	.0	.4	1.1	.1	.0	.0	.0	1.6	
8-9	.0	.0	.5	1.9	.5	.0	2.9	.0	.0	.0	.4	.0	.0	.0	.0	.4	
10-11	.0	.0	.2	1.1	.7	.0	2.0	.0	.0	.0	.3	.0	.0	.0	.0	.3	
12	.0	.0	.0	.0	.2	.0	.2	.0	.0	.0	.0	.0	.0	.0	.0	.0	
13-16	.0	.0	.0	.4	.3	.3	.9	.0	.0	.0	.2	.0	.0	.0	.0	.2	
17-19	.0	.0	.0	.1	.0	.0	.1	.0	.0	.0	.0	.0	.0	.0	.0	.0	
20-22	.0	.0	.0	.0	.4	.0	.4	.0	.0	.0	.0	.0	.0	.0	.0	.0	
23-25	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
26-32	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
33-40	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
41-48	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
49-60	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
61-70	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
71-86	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
87+	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
TOT PCT	.5	3.8	13.7	9.8	3.2	.3	31.2	.0	3.3	5.6	2.7	.2	.0	.0	12.0	98.2	

WIND SPEED (KTS) VS SEA HEIGHT (FT)

HGT	0-3	4-10	11-21	22-33	34-47	48+	PCT	TOT OBS
<1	4.0	4.7	.4	.0	.0	.0	9.1	
1-2	.7	13.3	7.5	.0	.0	.0	21.5	
3-4	.2	8.7	16.2	2.9	.0	.0	28.1	
5-6	.0	1.3	14.4	5.3	.4	.0	21.3	
7	.0	.4	3.8	4.9	1.1	.0	10.2	
8-9	.0	.0	.9	2.7	.5	.0	4.2	
10-11	.0	.0	.4	1.6	.7	.0	2.7	
12	.0	.0	.0	.2	.2	.0	.4	
13-16	.0	.2	.0	.9	.5	.4	2.0	
17-19	.0	.0	.0	.2	.0	.0	.2	
20-22	.0	.0	.0	.0	.4	.0	.4	
23-25	.0	.0	.0	.0	.0	.0	.0	
26-32	.0	.0	.0	.0	.0	.0	.0	
33-40	.0	.0	.0	.0	.0	.0	.0	
41-48	.0	.0	.0	.0	.0	.0	.0	
49-60	.0	.0	.0	.0	.0	.0	.0	
61-70	.0	.0	.0	.0	.0	.0	.0	
71-86	.0	.0	.0	.0	.0	.0	.0	
87+	.0	.0	.0	.0	.0	.0	.0	
TOT PCT	4.9	28.6	43.5	18.8	3.8	.4	100.0	549

PERIOD: (OVER-ALL) 1949-1971

TABLE 19

PERCENT FREQUENCY OF WAVE HEIGHT (FT) VS WAVE PERIOD (SECONDS)

PERIOD (SEC)	<1	1-2	3-4	5-6	7	8-9	10-11	12	13-16	17-19	20-22	23-25	26-32	33-40	41-48	49-60	61-70	71-86	87+	TOTAL	MEAN HGT
<6	2.6	8.5	11.0	8.5	3.7	1.0	1.0	.1	.1	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	255	4
6-7	.1	1.1	5.4	9.2	6.7	2.3	2.3	.4	1.1	.4	.0	.0	.0	.0	.0	.0	.0	.0	.0	204	6
8-9	.0	.4	1.6	4.2	4.4	2.0	2.6	.4	1.1	.3	.4	.0	.0	.0	.0	.0	.0	.0	.0	122	8
10-11	.0	.1	.4	1.6	.6	1.0	1.3	.6	1.0	.1	.0	.0	.0	.0	.0	.0	.0	.0	.0	85	10
12-13	.0	.0	.4	.4	.7	.4	.1	.3	.1	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	18	7
>13	.0	.0	.0	.1	.1	.0	.0	.4	.3	.1	.0	.1	.0	.0	.0	.0	.0	.0	.0	9	13
INDET	2.6	.4	1.0	.6	.7	.4	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	40	3
TOTAL	37	74	139	171	119	50	51	16	27	7	3	1	3	0	0	0	0	0	0	698	6
PCT	5.3	10.6	19.9	24.5	17.0	7.2	7.3	2.3	3.9	1.0	.4	.1	.4	.0	.0	.0	.0	.0	.0	100.0	

## OCTOBER

PERIOD: (PRIMARY) 1904-1972  
(OVER-ALL) 1854-1972

TABLE 1

AREA 0009 MELBOURNE SE  
38.45 146.9E

## PERCENT FREQUENCY OF WEATHER OCCURRENCE BY WIND DIRECTION

PRECIPITATION TYPE										OTHER WEATHER PHENOMENA					
WIND DIR	RAIN	RAIN SHWR	DRZL	FRZG PCPN	SNOW	OTHER FRZN PCPN	HAIL	PCPN AT DB TIME	PCPN PAST HOUR	THDR LTNG	FOG WD PCPN	FOG WD PCPN PAST HR	SMOKE HAZE	SPRAY BLWG DUST	NO. SIG WEA
N	1.3	1.1	.9	.0	.0	.0	.0	3.4	.5	.7	10.8	.4	4.0	.0	80.2
NE	4.7	.2	2.0	.0	.0	.0	.0	6.9	.7	3.7	5.6	.1	4.5	.0	79.9
E	4.6	.6	2.1	.0	.0	.0	.8	8.1	1.6	.4	4.1	.0	2.2	.0	83.9
SE	5.3	.8	2.0	.0	.0	.0	.0	8.1	2.4	.4	2.4	.0	.8	.0	86.4
S	4.6	4.9	.0	.0	.0	.0	.0	9.5	1.2	.3	2.0	.0	.3	.0	87.0
SW	3.7	5.9	.9	.0	.0	.0	.0	10.6	2.5	.8	2.1	.2	1.0	.0	83.1
W	2.6	5.8	1.7	.0	.0	.0	.0	9.8	2.0	1.0	3.9	.0	1.1	.0	82.3
NW	4.6	8.5	.7	.0	.0	.0	.0	13.7	.7	1.3	5.1	.0	2.1	.0	77.7
VAR	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
CALM	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	14.3	.0	3.6	.0	82.1
TOT PCT	3.7	3.8	1.3	.0	.0	.0	.1	8.8	1.6	1.1	4.4	.1	2.0	.0	82.5
TOT OBS:	2097														

TABLE 2

## PERCENT FREQUENCY OF WEATHER OCCURRENCE BY HOUR

HOUR (GMT)	PRECIPITATION TYPE							OTHER WEATHER PHENOMENA								
	RAIN	RAIN SHWR	DRZL	FRZG PCPN	SNOW	OTHER FRZN PCPN	HAIL	PCPN AT DB TIME	PCPN PAST HOUR	THDR LTNG	FOG WD PCPN	FOG WD PCPN PAST HR	SMOKE HAZE	SPRAY BLWG BLWG	DUST SNOW	NO SIG WEA
00003	3.8	2.5	1.9	.0	.0	.0	.0	8.2	1.9	.2	3.8	.2	2.7	.0		83.2
06009	3.2	3.8	.9	.0	.0	.0	.2	8.0	1.5	.5	4.7	.2	2.8	.0		82.6
12015	4.3	3.1	1.2	.0	.0	.0	.2	8.7	1.4	2.1	4.5	.0	1.4	.0		82.0
18021	4.5	5.2	1.5	.0	.0	.0	.0	11.2	1.3	1.9	4.5	.0	.8	.0		81.2
TOT PCT	3.9	3.8	1.3	.0	.0	.0	.1	9.1	1.5	1.2	4.4	.1	1.9	.0		82.2
TOT OBS:	2170															

TABLE 3

## PERCENTAGE FREQUENCY OF WIND DIRECTION BY SPEED AND BY HOUR

WIND DIR	WIND SPEED (KNOTS)							TOTAL OBS	PCT FREQ	MEAN SPD	HOUR (GMT)							
	0-3	4-10	11-21	22-33	34-47	48+					00	03	06	09	12	15	18	21
N	.8	5.0	2.8	.6	.0	.0		9.3	10.3		8.4	10.2	5.6	8.7	6.7	11.0	9.2	14.4
NE	1.2	7.5	4.6	.9	.1	.0		14.3	10.6		14.1	14.5	13.7	13.6	15.4	12.8	16.8	13.3
E	.9	5.3	3.9	.4	.1	.0		10.7	10.6		10.3	8.1	15.5	12.4	14.0	10.7	8.4	7.0
SE	.6	2.9	1.7	.2	.1	.0		5.5	9.6		6.5	5.2	6.0	7.4	5.1	4.1	5.0	4.5
S	.8	4.0	2.5	.6	.2	.0		8.1	11.3		4.3	7.2	8.9	10.7	6.8	8.8	7.3	8.5
SW	.8	6.4	8.4	4.3	.6	.1		20.6	15.7		21.2	19.8	24.0	24.4	18.7	21.3	19.0	15.1
W	.6	5.8	8.1	4.9	1.6	.3		21.3	17.8		24.7	22.7	19.4	17.0	23.5	20.0	22.2	23.1
NW	.3	3.5	2.7	1.3	.1	.0		7.9	13.2		9.8	10.1	5.4	4.4	4.2	8.3	9.1	11.4
VAR	.0	.0	.0	.0	.0	.0		.0	.0		.0	.0	.0	.0	.0	.0	.0	.0
CALM	2.4							2.4	.0		.8	2.2	1.5	1.3	5.6	3.1	2.9	2.8
TOT OBS	291	1393	1193	452	94	17	3440		13.1		241	550	582	446	231	392	579	419
TOT PCT	8.5	40.5	34.7	13.1	2.7	.5		100.0			100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0

TABLE 3A

WIND DIR	WIND SPEED (KNOTS)					TOTAL OBS	PCT FREQ	MEAN SPD	HOUR (GMT)				
	0-6	7-16	17-27	28-40	41+				00	06	12	18	21
N	3.0	4.9	1.1	.3	.0		9.3	10.3	9.7	7.0	9.4	11.4	
NE	4.3	7.6	2.0	.4	.0		14.3	10.6	14.3	13.6	13.7	15.3	
E	3.0	5.8	1.7	.2	.0		10.7	10.6	8.8	14.1	11.9	7.8	
SE	2.1	2.8	.5	.1	.0		5.5	9.6	5.6	6.6	4.5	4.8	
S	2.2	4.2	1.2	.3	.0		8.1	11.3	6.3	9.7	8.1	7.8	
SW	2.9	9.3	6.0	2.1	.3		20.6	15.7	20.2	24.2	20.3	17.3	
W	2.6	8.3	6.5	3.0	.9		21.3	17.8	23.3	18.4	21.3	22.6	
NW	1.9	3.7	1.7	.5	.1		7.9	13.2	10.0	5.0	6.8	10.1	
VAR	.0	.0	.0	.0	.0		.0	.0	.0	.0	.0	.0	
CALM	2.4						2.4	.0	1.8	1.5	4.0	2.8	
TOT OBS	836	1608	709	241	46	3440		13.1	791	1028	623	998	
TOT PCT	24.3	46.7	20.6	7.0	1.3		100.0		100.0	100.0	100.0	100.0	

OCTOBER

PERIOD: (PRIMARY) 1904-1972  
(OVER-ALL) 1854-1972AREA 0009 MELBOURNE SE  
38.45 146.9E

TABLE 4

## PERCENTAGE FREQUENCY OF WIND SPEED BY HOUR (GMT)

HOUR	CALM	1-3	4-10	WIND SPEED (KNOTS)				MEAN	PCT FREQ	TOTAL OBS
				11-21	22-33	34-47	48+			
0000	1.8	7.0	40.3	34.0	13.0	3.2	.8	13.1	100.0	791
0600	1.5	5.8	39.3	35.8	13.9	3.3	.4	13.7	100.0	1028
1200	4.0	5.3	39.2	35.6	13.3	2.2	.3	12.9	100.0	623
1800	2.8	6.1	42.7	33.5	12.3	2.1	.5	12.6	100.0	998
TOT	82	209	1393	1193	452	94	17	13.1		3440
PCT	2.4	6.1	40.5	34.7	13.1	2.7	.5		100.0	

TABLE 5

PCT FREQ OF TOTAL CLOUD AMOUNT (EIGHTHS)  
BY WIND DIRECTION

WIND DIR	0-2	3-4	5-7	8 & OBSCD	TOTAL OBS	MEAN CLOUD COVER
N	2.7	1.0	2.4	.9		4.1
NE	6.1	1.3	5.0	3.1		4.2
E	6.4	1.6	2.1	2.6		3.6
SE	1.8	.9	1.1	2.2		4.8
S	2.5	1.1	1.8	1.3		3.9
SW	6.3	3.4	8.7	4.5		4.8
W	4.6	4.8	8.4	3.3		4.7
NW	2.4	.7	2.3	1.3		4.4
VAR	.0	.0	.0	.0		.0
CALM	1.1	.0	.1	.3		2.5
TOT OBS	248	108	234	142	732	4.4
TOT PCT	33.9	14.8	32.0	19.4	100.0	

TABLE 6

PERCENTAGE FREQUENCY OF CEILING HEIGHTS (FT, NH >4/8)  
AND OCCURRENCE OF NH <5/8 BY WIND DIRECTION

	000 149	150 299	300 599	600 999	1000 1999	2000 3499	3500 4999	5000 6499	6500 7999	8000+	NH <5/8 ANY HGT	TOTAL OBS
N	.1	.0	.0	.3	.4	.2	.0	.0	.1	.1	.5	5.7
NE	.2	.0	.0	.7	1.6	1.4	.7	.1	.2	.5	10.1	
E	.0	.3	.4	.8	.6	.3	.2	.1	.1	.5	9.4	
SE	.1	.0	.4	.6	.8	.4	.3	.1	.0	.0	3.2	
S	.0	.0	.2	.4	1.1	.4	.0	.1	.1	.1	4.4	
SW	.0	.3	.1	2.9	4.7	2.2	.6	.3	.0	.2	11.6	
W	.0	.0	.0	2.7	3.6	1.6	.9	.8	.0	.2	11.2	
NW	.1	.0	.0	.3	.9	.3	.1	.0	.0	.0	4.1	
VAR	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
CALM	.1	.0	.0	.3	.0	.0	.0	.0	.0	.0	1.1	
TOT OBS	5	8	63	103	54	22	12	4	11	446	732	
TOT PCT	.7	.5	1.1	8.6	14.1	7.4	3.0	1.6	.5	1.5	60.9	100.0

TABLE 7

CUMULATIVE PCT FREQ OF SIMULTANEOUS OCCURRENCE  
OF CEILING HEIGHT (NH >4/8) AND VSBY (NM)

CEILING (FEET)	VSBY (NM)							
	>10	>5	>2	>1	>1/2	>1/4	>50YD	>0
>4500	2.0	2.0	2.0	2.0	2.0	2.0	2.0	2.0
>5000	2.5	3.7	4.0	4.0	4.0	4.0	4.0	4.0
>3500	4.9	6.8	7.0	7.0	7.0	7.0	7.0	7.0
>2000	10.9	14.1	14.4	14.4	14.4	14.4	14.4	14.4
>1000	21.4	27.0	28.1	28.1	28.1	28.1	28.1	28.1
>600	27.1	34.8	36.7	36.7	36.7	36.7	36.7	36.7
>300	27.8	35.6	37.8	37.8	37.8	37.8	37.8	37.8
>150	27.8	35.9	38.2	38.3	38.3	38.3	38.3	38.3
>0	27.9	36.2	38.4	38.6	38.6	38.7	39.0	39.1
TOTAL	210	272	289	290	290	291	293	294

TOTAL NUMBER OF OBS: 752

PCT FREQ NH &lt;5/8 60.9

TABLE 7A

## PERCENTAGE FREQ OF LOW CLOUDS (EIGHTHS)

0	1	2	3	4	5	6	7	8	OBSCD	TOTAL OBS
12.3	18.9	13.9	8.5	6.4	7.0	9.0	8.5	14.8	.7	901



PERIOD: (PRIMARY) 1904-1972  
(OVER-ALL) 1854-1972

OCTOBER

TABLE 8

AREA 0009 MELBOURNE SE  
38.45 146.9E

PERCENT FREQ OF WIND DIRECTION VS OCCURRENCE OR NON-OCCURRENCE OF  
PRECIPITATION WITH VARYING VALUES OF VISIBILITY

VSBY (NM)		N	NE	E	SE	S	SW	W	NW	VAR	CALM	PCT	TOTAL OBS
<1/2	PCP	.0	.0	.0	*	.0	.0	.0	.0	.0	.0	*	
	NO PCP	*	.1	.1	.0	*	.0	*	.1	.0	.1	.6	
	TOT %	*	.1	.1	*	*	.0	*	.1	.0	.1	.6	
1/2<1	PCP	.0	.1	*	.0	.0	*	*	.0	.0	.0	.1	
	NO PCP	.5	.3	.3	.1	*	.2	.6	.3	.0	.0	2.3	
	TOT %	.5	.4	.3	.1	*	.2	.6	.3	.0	.0	2.4	
1<2	PCP	.0	*	*	.0	.0	.1	*	.0	.0	.0	.2	
	NO PCP	.2	.1	.1	.0	.0	*	.2	.1	.0	*	.8	
	TOT %	.2	.1	.2	.0	.0	.1	.3	.1	.0	*	1.0	
2<5	PCP	*	*	.2	.1	.2	.1	.1	.1	.0	.0	.9	
	NO PCP	.1	.3	.1	.1	.0	.1	.3	.1	.0	.0	1.1	
	TOT %	.2	.3	.3	.2	.2	.2	.5	.2	.0	.0	2.0	
5<10	PCP	.2	.6	.5	.3	.3	1.6	1.6	.8	.0	.0	6.0	
	NO PCP	3.2	4.5	3.5	1.9	3.4	6.9	9.3	2.5	.0	.2	35.4	
	TOT %	3.4	5.1	4.0	2.3	3.8	8.5	10.8	3.3	.0	.2	41.4	
10+	PCP	*	.2	.2	*	.3	.4	.4	.1	.0	.0	1.6	
	NO PCP	4.5	7.5	6.5	3.4	4.0	10.9	9.9	3.3	.0	.9	51.0	
	TOT %	4.5	7.7	6.7	3.4	4.3	11.3	10.4	3.3	.0	.9	52.6	
TOT OBS		2097											
TOT PCT		8.9	13.7	11.6	6.1	8.3	20.3	22.6	7.3	.0	1.3	100.0	

TABLE 9

PERCENT FREQ OF WIND DIRECTION VS WIND SPEED  
WITH VARYING VALUES OF VISIBILITY

VSBY (NM)	SPD KTS	N	NE	E	SE	S	SW	W	NW	VAR	CALM	PCT	TOTAL OBS
<1/2	0-3	.0	.0	*	.0	.0	.0	*	*	.0	.2	.3	
	4-10	*	.1	*	*	*	.0	.0	*	.0	.0	.3	
	11-21	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
	22+	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
	TOT %	*	.1	.1	*	*	.0	*	.1	.0	.2	.6	
1/2<1	0-3	.1	*	*	.0	.0	*	.0	.0	.0	.0	.2	
	4-10	.2	.2	.1	.1	.0	*	.2	.1	.0	.0	1.0	
	11-21	.2	.1	.1	.0	*	.1	.1	.1	.0	.0	.7	
	22+	.0	.1	*	.0	.0	*	.2	*	.0	.0	.4	
	TOT %	.5	.4	.3	.1	*	.2	.5	.2	.0	.0	2.2	
1<2	0-3	*	.0	.0	.0	.0	.0	.0	*	.0	*	.1	
	4-10	.1	.1	.1	*	.0	*	.1	.1	.0	.0	.5	
	11-21	.1	.1	.1	.0	.0	.1	.2	.0	.0	.0	.5	
	22+	.0	.0	.0	.0	.0	*	*	*	.0	.0	.1	
	TOT %	.2	.1	.1	*	.0	.2	.3	.1	.0	*	1.1	
2<5	0-3	*	*	*	*	*	.1	.0	.0	.0	.0	.2	
	4-10	.1	.2	.1	*	.0	.1	.1	.2	.0	.0	.9	
	11-21	.1	.1	.2	.1	.1	.2	.3	*	.0	.0	1.1	
	22+	*	*	.0	*	.1	*	.2	*	.0	.0	.5	
	TOT %	.2	.4	.3	.2	.2	.4	.6	.3	.0	.0	2.8	
5<10	0-3	.3	.4	.3	.3	.3	.3	.1	.1	.0	.3	2.3	
	4-10	1.5	2.4	1.5	1.0	1.8	1.9	2.6	1.0	.0	.0	13.7	
	11-21	1.3	1.7	1.8	.7	1.1	3.1	3.0	1.2	.0	.0	13.8	
	22+	.2	.3	.2	.1	.3	2.7	4.3	.8	.0	.0	9.0	
	TOT %	3.3	4.9	3.8	2.0	3.5	8.0	10.0	3.1	.0	.3	38.7	
10+	0-3	.5	.6	.5	.3	.6	.4	.4	.1	.0	1.1	4.6	
	4-10	2.7	4.5	3.6	1.8	2.1	4.2	2.9	1.7	.0	.0	23.5	
	11-21	1.3	2.8	2.2	1.2	1.5	5.6	5.1	1.3	.0	.0	20.9	
	22+	.2	.1	.1	*	.3	2.0	2.3	.6	.0	.0	5.7	
	TOT %	4.7	8.0	6.4	3.3	4.5	12.2	10.8	3.7	.0	1.1	54.7	
TOT OBS		2394											
TOT PCT		8.9	14.0	11.0	5.7	8.2	21.0	22.2	7.5	.0	1.5	100.0	

## OCTOBER

PERIOD: (PRIMARY) 1904-1972  
(OVER-ALL) 1854-1972

AREA 0009 MELBOURNE SE  
38.45 146.9E

TABLE 10

PERCENT FREQUENCY OF CEILING HEIGHTS (FEET, NH > 4/8) AND  
OCCURRENCE OF NH < 5/8 BY HOUR

HOURL (GMT)	000 149	150 299	300 599	600 999	1000 1999	2000 3499	3500 4999	5000 6499	6500 7999	8000+	TOTAL 38.0	NH < 5/8 ANY HGT	TOTAL OBS
00003	1.3	.9	1.3	8.5	12.4	7.7	1.3	2.1	.9	1.7	38.0	62.0	234
06009	.4	.0	1.3	8.7	12.1	6.5	2.6	2.2	.4	2.2	36.4	63.6	231
12015	.5	.5	.5	6.5	10.8	7.5	4.3	.5	.0	.0	31.2	68.8	186
18021	.5	.5	.5	7.1	14.1	4.3	3.3	2.2	.5	1.1	34.2	65.8	184
TOT	6	4	8	65	103	55	23	15	4	11	294	541	835
PCT	.7	.5	1.0	7.8	12.3	6.6	2.8	1.8	.5	1.3	35.2	64.8	100.0

TABLE 11

PERCENT FREQUENCY VSBY (NM) BY HOUR

HOURL (GMT)	<1/2	1/2<1	1<2	2<5	5<10	10+	TOTAL OBS
00003	.6	2.1	1.9	3.4	30.7	61.3	525
06009	.5	3.0	1.1	2.6	45.0	47.8	742
12015	1.0	1.5	1.0	3.7	34.5	58.2	481
18021	.4	2.2	.6	2.1	42.1	52.6	719
TOT	15	56	27	70	964	1335	2467
PCT	.6	2.3	1.1	2.8	39.1	54.1	100.0

TABLE 12

CUMULATIVE PCT FREQ OF RANGES OF VSBY (NM) AND/OR  
CEILING HGT (FEET, NH > 4/8), BY HOUR

HOURL (GMT)	<150 <50YD	<600 <1	<1000 <5	1000+ AND 5+	NH < 5/8 AND 5+	TOTAL OBS
00003	1.4	4.2	15.4	26.6	57.9	214
06009	.5	2.0	14.1	28.8	57.1	198
12015	.6	1.7	8.4	24.2	67.4	178
18021	.6	1.9	11.1	28.4	60.5	162
TOT	6	19	94	203	455	752
PCT	.8	2.5	12.5	27.0	60.5	100.0

TABLE 13

PERCENT FREQUENCY OF RELATIVE HUMIDITY BY TEMP

TEMP F	0-29	30-39	40-49	50-59	60-69	70-79	80-89	90-100	TOTAL OBS	PCT FREQ
75/79	.0	.1	.2	.0	.0	.0	.0	.0	4	.3
70/74	.0	.0	.0	.5	.2	.1	.1	.0	11	.8
65/69	.0	.0	.2	.8	.7	1.4	.7	.8	59	4.5
60/64	.0	.0	.2	.8	2.9	6.1	5.7	4.1	255	19.6
55/59	.0	.0	.1	1.2	5.2	14.4	16.3	11.8	636	49.0
50/54	.0	.0	.1	.4	3.5	6.9	8.6	4.1	307	23.7
45/49	.0	.0	.0	.0	.5	.3	.4	.8	26	2.0
TOTAL	0	1	10	48	167	379	413	280	1298	100.0
PCT	.0	.1	.8	3.7	12.9	29.2	31.8	21.6		

TABLE 14

PERCENT FREQUENCY OF WIND DIRECTION BY TEMP

	N	NE	E	SE	S	SW	W	NW	VAR	CALM
75/79	.2	.0	.0	.0	.0	.0	.0	.1	.0	.0
70/74	.2	.3	.2	.0	.1	.0	.2	.0	.0	.0
65/69	1.1	.9	.9	.2	.4	.3	.2	.4	.0	.0
60/64	3.0	5.4	3.1	1.1	1.0	2.8	1.4	1.8	.0	.1
55/59	3.9	6.6	5.8	3.1	3.1	11.3	10.7	3.4	.0	1.1
50/54	.7	1.6	1.4	1.8	2.9	6.7	6.9	1.6	.0	.2
45/49	.1	.0	.1	.0	.4	.5	.8	.2	.0	.0
TOTAL	9.1	14.8	11.4	6.3	7.8	21.6	20.2	7.6	.0	1.3

TABLE 15

MEANS, EXTREMES AND PERCENTILES OF TEMP (DEG F) BY HOUR

HOURL (GMT)	MAX	99%	95%	50%	5%	1%	MIN	MEAN	TOTAL OBS
00003	79	70	65	58	52	50	48	53.3	764
06009	78	72	66	57	52	49	48	58.0	1010
12015	72	66	62	56	51	48	46	56.1	635
18021	73	65	61	55	50	47	43	55.6	1002
TOT	79	69	64	56	51	48	43	57.0	3411

TABLE 16

PERCENT FREQUENCY OF RELATIVE HUMIDITY BY HOUR

HOURL (GMT)	0-29	30-59	60-69	70-79	80-89	90-100	MEAN	TOTAL OBS
00003	.0	6.0	14.6	34.2	28.3	17.0	78	336
06009	.0	6.6	16.8	28.3	31.0	17.3	78	381
12015	.0	2.3	10.6	26.6	36.9	23.6	82	263
18021	.0	2.5	7.6	26.8	33.1	29.9	83	354
TOT	0	60	168	388	427	291	80	1334

## OCTOBER

PERIOD: (PRIMARY) 1904-1972  
(OVER-ALL) 1854-1972

TABLE 17

AREA 0009 MELBOURNE SE  
38.45 146.9E

PCT FREQ OF AIR TEMPERATURE (DEG F) AND THE OCCURRENCE OF FOG (WITHOUT PRECIPITATION)  
VS AIR-SEA TEMPERATURE DIFFERENCE (DEG F)

AIR-SEA TMP DIF	45	49	53	57	61	65	69	73	77	TOT	W FOG	WD FOG
	48	52	56	60	64	68	72	76	80			
20/22	.0	.0	.0	.0	.0	.0	.0	.0	.1	1	.0	.1
17/19	.0	.0	.0	.0	.0	.1	.0	.1	.1	3	.1	.1
14/16	.0	.0	.0	.0	.1	.1	.2	.2	.1	12	.0	.7
11/13	.0	.0	.0	.0	.2	.3	.2	.1	.0	14	.1	.8
9/10	.0	.0	.0	.0	.3	.5	.0	.0	.0	14	.2	.6
7/8	.0	.0	.0	.3	.7	.9	.2	.0	.0	37	.1	2.1
6	.0	.0	.1	.2	.9	.3	.0	.0	.0	26	.1	1.4
5	.0	.1	.1	.8	1.7	.4	.0	.0	.0	52	.1	2.9
4	.0	.0	.4	2.1	2.6	.2	.0	.0	.0	92	.4	4.9
3	.0	.0	.8	3.1	1.4	.3	.0	.0	.0	98	.5	5.2
2	.0	.1	1.4	6.8	1.6	.1	.0	.0	.0	172	1.0	9.0
1	.0	.1	4.2	6.5	.9	.0	.1	.0	.0	203	.5	11.2
0	.0	.4	9.4	5.9	.8	.1	.0	.0	.0	286	.9	15.7
-1	.1	.5	9.7	2.5	.4	.0	.0	.0	.0	227	.8	12.3
-2	.0	1.4	7.2	1.3	.1	.0	.0	.0	.0	175	.1	10.0
-3	.0	2.0	3.8	.9	.1	.0	.0	.0	.0	119	.1	6.8
-4	.0	2.3	2.3	.3	.1	.0	.0	.0	.0	87	.1	4.9
-5	.3	1.1	1.2	.2	.1	.0	.0	.0	.0	49	.1	2.8
-6	.0	.6	.3	.1	.0	.0	.0	.0	.0	18	.0	1.0
-7/-8	.5	.8	.5	.3	.0	.0	.0	.0	.0	35	.1	2.0
-9/-10	.1	.1	.1	.1	.0	.0	.0	.0	.0	7	.0	.4
-11/-13	.0	.1	.1	.0	.0	.0	.0	.0	.0	2	.0	.1
TOTAL	16	166	717	547	206	57	12	5	3	1729	86	1643
PCT	.9	9.6	41.5	31.6	11.9	3.3	.7	.3	.2	100.0	5.0	95.0

PERIOD: (OVER-ALL) 1963-1972

TABLE 18

PCT FREQ OF WIND SPEED (KTS) AND DIRECTION VERSUS SEA HEIGHTS (FT)

HGT	1-3	4-10	11-21	22-33	34-47	48+	PCT	1-3	4-10	11-21	22-33	34-47	48+	PCT
<1	.6	.8	.0	.0	.0	.0	1.4	.6	1.5	.0	.0	.0	.0	2.1
1-2	.1	2.6	.4	.0	.0	.0	3.1	.*	4.5	.8	.0	.0	.0	5.4
3-4	.0	.9	1.2	.0	.0	.0	2.1	.0	1.3	2.4	.0	.0	.0	3.7
5-6	.0	.0	.3	.2	.0	.0	.5	.0	.3	1.8	.2	.0	.0	2.3
7	.0	.0	.2	.2	.0	.0	.3	.0	.0	.2	.0	.2	.0	.4
8-9	.0	.0	.0	.0	.0	.0	.0	.0	.*	.0	.2	.0	.0	.2
10-11	.0	.0	.0	.0	.0	.0	.0	.0	.*	.0	.0	.0	.0	.*
12	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
13-16	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
17-19	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
20-22	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
23-25	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
26-32	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
33-40	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
41-48	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
49-60	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
61-70	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
71-86	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
87+	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
TOT PCT	.7	4.3	2.0	.3	.0	.0	7.4	.6	7.7	5.3	.3	.2	.0	14.1

HGT	1-3	4-10	11-21	22-33	34-47	48+	PCT	1-3	4-10	11-21	22-33	34-47	48+	PCT
<1	.6	.5	.2	.0	.0	.0	1.3	.5	1.0	.0	.0	.0	.0	1.5
1-2	.1	3.4	.9	.0	.0	.0	4.4	.*	1.3	.5	.0	.0	.0	1.9
3-4	.0	1.7	1.8	.0	.0	.0	3.5	.0	.4	1.2	.0	.0	.0	1.6
5-6	.0	.2	1.8	.0	.0	.0	2.0	.0	.0	1.7	.0	.0	.0	.7
7	.0	.0	1.2	.0	.0	.0	1.2	.0	.0	.5	.2	.2	.0	.8
8-9	.0	.1	.0	.0	.0	.0	.1	.0	.0	.0	.0	.0	.0	.0
10-11	.0	.1	.0	.0	.0	.0	.1	.0	.0	.0	.0	.0	.0	.0
12	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
13-16	.0	.0	.0	.2	.0	.0	.2	.0	.0	.0	.0	.0	.0	.0
17-19	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
20-22	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
23-25	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
26-32	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
33-40	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
41-48	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
49-60	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
61-70	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
71-86	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
87+	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
TOT PCT	.7	6.0	5.9	.2	.0	.0	12.8	.5	2.7	2.9	.2	.2	.0	6.4

PERIOD: (OVER-ALL) 1963-1972

OCTOBER

AREA 0009 MELBOURNE SE  
38.45 146.9E

TABLE 18 (CONT)

PCT FREQ OF WIND SPEED (KTS) AND DIRECTION VERSUS SEA HEIGHTS (FT)

HGT	S							PCT	SW							PCT
	1-3	4-10	11-21	22-33	34-47	48+			1-3	4-10	11-21	22-33	34-47	48+		
<1	.7	.6	.2	.0	.0	.0		1.5	*	1.1	.0	.0	.0	.0		1.2
1-2	.0	.7	.5	.0	.0	.0		1.1	.5	2.0	.6	.0	.0	.0		3.1
3-4	.0	1.0	1.0	.0	.0	.0		2.1	.0	2.6	5.9	.4	.0	.0		8.8
5-6	.0	.5	.5	.0	.0	.0		1.1	.0	1.4	3.7	.4	.0	.0		4.5
7	.0	.0	.3	.2	.2	.0		.6	.0	.2	1.2	1.6	.0	.0		3.0
8-9	.0	.0	.0	.0	.0	.0		.0	.0	.0	.2	1.0	.0	.0		1.2
10-11	.0	.0	.0	.0	.0	.0		.0	.0	.0	.5	.0	.0	.0		.5
12	.0	.0	.0	.0	.0	.0		.0	.0	.0	.2	.5	.0	.0		.7
13-16	.0	.0	.0	.0	.0	.0		.0	.0	.0	.0	.0	.0	.0		.0
17-19	.0	.0	.0	.0	.2	.0		.2	.0	.0	.0	.0	.0	.0		.0
20-22	.0	.0	.0	.0	.0	.0		.0	.0	.0	.0	.0	.2	.0		.2
23-25	.0	.0	.0	.0	.0	.0		.0	.0	.0	.0	.0	.0	.0		.0
26-32	.0	.0	.0	.0	.0	.0		.0	.0	.0	.0	.0	.0	.0		.0
33-40	.0	.0	.0	.0	.0	.0		.0	.0	.0	.0	.0	.0	.0		.0
41-48	.0	.0	.0	.0	.0	.0		.0	.0	.0	.0	.0	.0	.0		.0
49-60	.0	.0	.0	.0	.0	.0		.0	.0	.0	.0	.0	.0	.0		.0
61-70	.0	.0	.0	.0	.0	.0		.0	.0	.0	.0	.0	.0	.0		.0
71-86	.0	.0	.0	.0	.0	.0		.0	.0	.0	.0	.0	.0	.0		.0
87+	.0	.0	.0	.0	.0	.0		.0	.0	.0	.0	.0	.0	.0		.0
TOT PCT	.7	2.9	2.5	.2	.3	.0		6.6	.5	6.2	12.2	3.9	.2	.0		23.0

HGT	W							PCT	NW							PCT	TOTAL PCT
	1-3	4-10	11-21	22-33	34-47	48+			1-3	4-10	11-21	22-33	34-47	48+			
<1	.8	.5	.0	.0	.0	.0		1.3	*	.3	.0	.0	.0	.0		.4	
1-2	.0	2.3	1.2	.0	.0	.0		3.5	.0	2.2	.2	.0	.0	.0		2.5	
3-4	.0	1.5	3.2	.7	.0	.0		5.5	.0	.4	.7	.1	.0	.0		1.2	
5-6	.0	.3	4.7	.6	.0	.0		5.5	.0	.2	.0	.2	.0	.0		.4	
7	.0	.0	.6	1.0	.1	.0		1.7	.0	.0	.2	.2	*	.0		.4	
8-9	.0	.0	.3	1.1	.0	.0		1.5	.0	.0	.0	.2	.0	.0		.2	
10-11	.0	.0	.1	.8	.0	.0		.9	.0	.0	.0	*	.0	.0		*	
12	.0	.0	.0	.4	.5	.0		.9	.0	.0	.0	.1	.0	.0		.1	
13-16	.0	.0	.0	.0	.0	.2		.2	.0	.0	.0	.2	.0	.0		.2	
17-19	.0	.0	.0	.2	.0	.0		.2	.0	.0	.0	.0	.0	.0		.0	
20-22	.0	.0	.0	.0	.2	.0		.2	.0	.0	.0	.0	.0	.0		.0	
23-25	.0	.0	.0	.0	.0	.0		.0	.0	.0	.0	.0	.0	.0		.0	
26-32	.0	.0	.0	.0	.0	.0		.0	.0	.0	.0	.0	.0	.0		.0	
33-40	.0	.0	.0	.0	.0	.0		.0	.0	.0	.0	.0	.0	.0		.0	
41-48	.0	.0	.0	.0	.0	.0		.0	.0	.0	.0	.0	.0	.0		.0	
49-60	.0	.0	.0	.0	.0	.0		.0	.0	.0	.0	.0	.0	.0		.0	
61-70	.0	.0	.0	.0	.0	.0		.0	.0	.0	.0	.0	.0	.0		.0	
71-86	.0	.0	.0	.0	.0	.0		.0	.0	.0	.0	.0	.0	.0		.0	
87+	.0	.0	.0	.0	.0	.0		.0	.0	.0	.0	.0	.0	.0		.0	
TOT PCT	.8	4.7	10.1	4.8	.8	.2		21.4	*	3.2	1.2	.9	*	.0		5.4	97.2

WIND SPEED (KTS) VS SEA HEIGHT (FT)

HGT	0-3	4-10	11-21	22-33	34-47	48+	PCT	TOT DBS
<1	6.6	6.5	.3	.0	.0	.0	13.4	
1-2	.8	19.2	5.1	.0	.0	.0	25.2	
3-4	.0	9.8	17.4	1.2	.0	.0	28.4	
5-6	.0	2.0	13.4	1.5	.0	.0	16.9	
7	.0	.2	4.3	3.3	.7	.0	8.5	
8-9	.0	.2	.5	2.5	.0	.0	3.2	
10-11	.0	.2	.7	.8	.0	.0	1.7	
12	.0	.0	.2	1.0	.5	.0	1.7	
13-16	.0	.0	.0	.3	.0	.2	.5	
17-19	.0	.0	.0	.2	.2	.0	.3	
20-22	.0	.0	.0	.0	.3	.0	.3	
23-25	.0	.0	.0	.0	.0	.0	.0	
26-32	.0	.0	.0	.0	.0	.0	.0	
33-40	.0	.0	.0	.0	.0	.0	.0	
41-48	.0	.0	.0	.0	.0	.0	.0	
49-60	.0	.0	.0	.0	.0	.0	.0	
61-70	.0	.0	.0	.0	.0	.0	.0	
71-86	.0	.0	.0	.0	.0	.0	.0	
87+	.0	.0	.0	.0	.0	.0	.0	
TOT PCT	7.5	38.0	42.0	10.8	1.7	.2	100.0	603

PERIOD: (OVER-ALL) 1949-1972

TABLE 19

PERCENT FREQUENCY OF WAVE HEIGHT (FT) VS WAVE PERIOD (SECONDS)

PERIOD (SEC)	<1	1-2	3-4	5-6	7	8-9	10-11	12	13-16	17-19	20-22	23-25	26-32	33-40	41-48	49-60	61-70	71-86	87+	TOTAL	MEAN HGT
<6	1.6	10.4	13.6	9.3	3.2	.4	.1	.1	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	291	4
6-7	.1	1.2	5.3	9.1	5.5	3.1	1.6	.8	.7	.1	.3	.0	.0	.0	.0	.0	.0	.0	.0	208	6
8-9	.0	.1	2.1	3.3	4.1	2.1	1.3	.7	.3	.4	.3	.0	.0	.0	.0	.0	.0	.0	.0	111	7
10-11	.0	.3	.7	1.5	1.1	1.3	.7	.3	.7	.4	.1	.0	.0	.0	.0	.0	.0	.0	.0	52	8
12-13	.0	.0	.1	.0	.1	.7	.1	.4	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	11	8
>13	.0	.0	.0	.4	.4	.1	.1	.0	.1	.0	.1	.0	.0	.0	.0	.0	.0	.0	.0	10	9
INDFT	4.5	1.9	1.2	.5	.8	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	67	2
TOTAL	47	104	173	181	114	58	30	17	13	7	6	0	0	0	0	0	0	0	0	750	5
PCT	6.3	13.9	23.1	24.1	15.2	7.7	4.0	2.3	1.7	.9	.8	.0	.0	.0	.0	.0	.0	.0	.0	100.0	

NOVEMBER

PERIOD: (PRIMARY) 1905-1969  
(OVER-ALL) 1858-1969

AREA 0009 MELBOURNE SE  
38.45 146.8E

TABLE 1

PERCENT FREQUENCY OF WEATHER OCCURRENCE BY WIND DIRECTION

WIND DIR	PRECIPITATION TYPE							OTHER WEATHER PHENOMENA								NO SIG WEA
	RAIN	RAIN SHWR	ORZL	FRZG PCPN	SNOW	OTHER FRZN PCPN	HAIL	PCPN AT OB TIME	PCPN PAST HOUR	THDR LTNG	FDG WD PCPN	FDG WD PCPN PAST HR	SMOKE HAZE	SPRAY BLWG DUST	NO SIG WEA	
N	2.2	1.7	1.6	.0	.0	.0	.0	5.5	.6	1.3	9.4	.0	3.6	.0	80.2	
NE	7.1	.1	1.7	.0	.0	.0	.0	8.9	.4	2.6	10.3	.1	3.1	.0	75.8	
E	5.3	.5	1.0	.0	.0	.0	.0	6.7	.0	1.0	9.5	.4	1.0	.0	81.9	
SE	4.6	2.7	6.2	.0	.0	.0	.0	13.5	.9	.4	1.5	.0	.4	.0	83.2	
S	2.2	2.3	1.2	.0	.0	.0	.0	5.6	.5	1.0	3.5	.0	.3	.0	89.7	
SW	3.6	4.8	1.2	.0	.0	.0	.0	9.6	2.0	1.0	1.0	.2	1.6	.0	84.8	
W	3.9	7.8	1.1	.0	.0	.0	.9	13.7	4.0	.6	.4	.0	.5	.0	81.1	
NW	3.1	2.9	1.0	.0	.0	.0	.5	7.4	.0	.0	2.9	.0	2.1	.0	87.6	
VAR	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
CALM	.0	.0	6.9	.0	.0	.0	.0	6.9	.0	.0	24.1	.0	6.9	.0	62.1	
TOT PCT	4.0	3.8	1.6	.0	.0	.0	.3	9.7	1.7	1.0	4.2	.1	1.6	.0	82.3	
TOT OBS: 1975																

TABLE 2

PERCENT FREQUENCY OF WEATHER OCCURRENCE BY HOUR

HOUR (GMT)	PRECIPITATION TYPE							OTHER WEATHER PHENOMENA								NO SIG WEA
	RAIN	RAIN SHWR	ORZL	FRZG PCPN	SNOW	OTHER FRZN PCPN	HAIL	PCPN AT OB TIME	PCPN PAST HOUR	THDR LTNG	FDG WD PCPN	FDG WD PCPN PAST HR	SMOKE HAZE	SPRAY BLWG DUST	NO SIG WEA	
0000	4.7	3.8	1.1	.0	.0	.0	.2	9.8	1.9	.0	4.3	.4	1.7	.0	81.8	
0600	3.0	3.5	2.2	.0	.0	.0	.2	9.0	1.1	1.4	4.6	.0	2.6	.0	82.1	
1200	4.1	3.4	1.2	.0	.0	.0	.2	9.0	1.9	1.7	3.6	.0	1.2	.0	83.0	
1800	4.2	4.4	2.1	.0	.0	.0	.3	11.0	1.6	1.0	5.1	.0	.9	.0	80.8	
TOT PCT	3.9	3.8	1.7	.0	.0	.0	.2	9.7	1.6	1.1	4.5	.1	1.6	.0	81.8	
TOT OBS: 2077																

TABLE 3

PERCENTAGE FREQUENCY OF WIND DIRECTION BY SPEED AND BY HOUR

WIND DIR	WIND SPEED (KNOTS)							TOTAL QRS	PCT FREQ	MEAN SPD	HOUR (GMT)							
	0-3	4-10	11-21	22-33	34-47	48+					00	03	06	09	12	15	18	21
N	.9	3.5	2.5	.8	.*	.0		7.8	11.2		5.9	8.5	5.1	5.9	6.5	7.6	8.2	14.0
NE	.7	6.0	4.4	.6	.1	.0		11.9	11.1		13.5	12.3	8.7	12.3	11.8	11.4	12.9	14.1
E	.7	4.7	3.7	.6	.*	.0		9.7	11.0		11.9	8.5	12.9	9.6	12.9	10.2	8.0	5.5
SE	.6	3.8	1.3	.3	.*	.0		6.1	9.2		4.4	6.8	8.4	7.6	3.2	5.4	6.2	3.1
S	.9	4.0	2.6	.8	.1	.*		8.5	11.2		5.1	10.1	8.9	11.8	5.2	9.1	6.8	7.5
SW	1.0	7.7	10.8	4.8	1.3	.2		25.9	16.0		27.1	25.6	27.4	27.3	28.5	25.4	22.4	25.6
W	.6	5.1	8.7	5.8	1.5	.1		21.8	18.2		25.7	18.6	22.4	20.0	27.0	21.9	24.0	19.3
NW	.6	2.4	2.1	.8	.2	.*		6.1	13.4		3.8	7.4	5.0	3.1	4.0	5.1	8.4	9.2
VAR	.0	.0	.0	.0	.0	.0		.0	.0		.0	.0	.0	.0	.0	.0	.0	.0
CALM	2.3							2.3	.0		2.6	2.1	1.3	2.3	.9	3.9	3.1	1.6
TOT OBS	267	1208	1164	473	109	14	3235		13.7		229	565	560	390	212	381	516	382
TOT PCT	8.3	37.3	36.0	14.6	3.4	.4		100.0			100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0

TABLE 3A

WIND DIR	WIND SPEED (KNOTS)							TOTAL QRS	PCT FREQ	MEAN SPD	HOUR (GMT)			
	0-6	7-16	17-27	28-40	41+						00	06	12	18
N	2.5	3.6	1.4	.3	.*			7.8	11.2		7.7	5.4	7.2	10.7
NE	3.1	6.7	1.7	.4	.*			11.9	11.1		12.7	10.2	11.6	13.4
E	3.0	4.8	1.8	.2	.0			9.7	11.0		9.5	11.6	11.2	7.0
SE	2.3	3.0	.7	.*	.0			6.1	9.2		6.1	8.1	4.6	4.9
S	2.8	3.9	1.3	.4	.*			8.5	11.2		8.7	10.1	7.7	7.1
SW	3.7	10.8	8.4	2.4	.5			25.9	16.0		26.0	27.3	26.5	23.7
W	2.2	7.8	7.4	4.0	.4			21.8	18.2		20.7	21.4	23.7	22.0
NW	1.6	2.5	1.5	.4	.1			6.1	13.4		6.4	4.2	4.7	8.7
VAR	.0	.0	.0	.0	.0			.0	.0		.0	.0	.0	.0
CALM	2.3							2.3	.0		2.3	1.7	2.9	2.4
TOT OBS	762	1391	781	264	37	3235			13.7		794	950	593	898
TOT PCT	23.6	43.0	24.1	8.2	1.1			100.0			100.0	100.0	100.0	100.0



PERIOD: (PRIMARY) 1905-1969  
(OVER-ALL) 1858-1969

NOVEMBER

AREA 0009 MELBOURNE SE  
38.45 146.8E

TABLE 4

PERCENTAGE FREQUENCY OF WIND SPEED BY HOUR (GMT)

HOUR	CALM	1-3	4-10	WIND SPEED (KNOTS)			48+	MEAN	PCT FREQ	TOTAL OBS
				11-21	22-33	34-47				
00003	2.3	6.3	38.9	35.0	13.4	3.7	.5	13.5	100.0	794
06009	1.7	4.7	35.9	37.1	16.5	3.8	.3	14.4	100.0	950
12015	2.9	4.9	35.4	37.4	15.2	3.5	.7	14.1	100.0	593
18021	2.4	7.8	38.8	34.7	13.4	2.6	.3	12.9	100.0	898
TOT	73	194	1208	1164	473	109	14	13.7		3235
PCT	2.3	6.0	37.3	36.0	14.6	3.4	.4	100.0		

TABLE 5

PCT FREQ OF TOTAL CLOUD AMOUNT (EIGHTHS)  
BY WIND DIRECTION

WIND DIR	0-2	3-4	5-7	8 & OBSCD	TOTAL OBS	MEAN CLOUD COVER
N	1.5	1.0	1.9	2.0		5.0
NE	4.8	1.2	2.9	2.8		4.2
E	4.8	2.0	2.7	2.5		3.8
SE	1.3	1.0	1.3	2.3		5.3
S	.9	.9	2.2	1.3		5.2
SW	4.8	5.7	9.6	6.0		5.0
W	4.6	4.6	9.8	6.8		5.3
NW	1.0	1.3	1.8	.8		4.6
VAR	.0	.0	.0	.0		.0
CALM	.9	.1	.1	.8		4.0
TOT OBS	189	136	247	192	764	4.8
TOT PCT	24.7	17.8	32.3	25.1	100.0	

TABLE 6

PERCENTAGE FREQUENCY OF CEILING HEIGHTS (FT, NH >4/8)  
AND OCCURRENCE OF NH <5/8 BY WIND DIRECTION

	000	150	300	600	1000	2000	3500	5000	6500	8000+	NH <5/8 ANY HGT	TOTAL OBS
	149	299	599	999	1999	3499	4999	6499	7999			
N	.0	.0	.0	.3	1.5	.5	.4	.2	.0	.1	3.4	
NE	.0	.0	.5	.4	1.1	1.4	.7	.0	.0	.0	7.5	
E	.1	.0	.0	1.3	1.3	.5	.3	.1	.0	.1	8.2	
SE	.0	.0	.1	.9	.6	1.1	.4	.0	.0	.0	2.7	
S	.0	.0	.5	.1	1.1	.9	.1	.0	.1	.2	2.1	
SW	.0	.0	.6	3.0	4.9	2.6	.7	.0	.0	.2	14.2	
W	.1	.0	.4	2.4	5.8	2.5	.9	.1	.5	.1	13.0	
NW	.0	.0	.0	.1	.4	.2	.4	.1	.1	.0	3.5	
VAR	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
CALM	.0	.1	.1	.0	.5	.1	.0	.0	.0	.0	1.0	
TOT OBS	2	1	16	65	132	75	30	5	6	6	426	764
TOT PCT	.3	.1	2.1	8.5	17.3	9.8	3.9	.7	.8	.8	55.8	100.0

TABLE 7

CUMULATIVE PCT FREQ OF SIMULTANEOUS OCCURRENCE  
OF CEILING HEIGHT (NH >4/8) AND VSBY (NM)

CEILING (FEET)	VSBY (NM)							
	>10	>5	>2	>1	>1/2	>1/4	>50YD	>0
>6500	1.0	1.5	1.5	1.5	1.5	1.5	1.5	1.5
>6000	1.5	2.2	2.2	2.2	2.2	2.2	2.2	2.2
>5500	5.3	6.3	6.4	6.4	6.4	6.4	6.4	6.4
>5000	13.1	15.9	16.0	16.0	16.0	16.0	16.0	16.0
>4500	26.3	32.2	33.1	33.1	33.1	33.1	33.1	33.1
>4000	30.1	39.1	41.4	41.5	41.5	41.5	41.5	41.5
>3500	30.6	40.9	43.3	43.6	43.6	43.6	43.6	43.6
>3000	30.6	40.9	43.3	43.7	43.7	43.7	43.7	43.7
>2500	30.6	40.9	43.3	43.7	43.7	43.7	43.7	43.7
>2000	30.6	40.9	43.3	43.7	43.7	43.7	43.7	43.7
>1500	30.6	40.9	43.3	43.7	43.7	43.7	43.7	43.7
>1000	30.6	40.9	43.3	43.7	43.7	43.7	43.7	43.7
>500	30.6	40.9	43.3	43.7	43.7	43.7	43.7	43.7
>0	30.8	41.0	43.5	43.8	43.8	44.0	44.0	44.0
TOTAL	240	320	339	342	342	343	343	343

TOTAL NUMBER OF OBS: 780

PCT FREQ NH <5/8: 56.0

TABLE 7A

PERCENTAGE FREQ OF LOW CLOUDS (EIGHTHS)

	0	1	2	3	4	5	6	7	8	OBSCD	TOTAL OBS
	12.5	11.4	11.3	12.0	7.4	8.4	9.4	7.9	19.5	.2	928

NOVEMBER

PERIOD: (PRIMARY) 1905-1969  
(OVER-ALL) 1858-1969

AREA 0009 MELBOURNE SE  
38.45 146.8E

TABLE 8

PERCENT FREQ OF WIND DIRECTION VS OCCURRENCE OR NON-OCCURRENCE OF  
PRECIPITATION WITH VARYING VALUES OF VISIBILITY

VISBY (NM)		N	NE	E	SE	S	SW	W	NW	VAR	CALM	PCT	TOTAL OBS
<1/2	PCP	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
	NO PCP	.1	.1	.2	*	.0	.1	.0	.0	.0	.0	.4	.4
	TOT %	.1	.1	.2	*	.0	.1	.0	.0	.0	.0	.4	.4
1/2<1	PCP	.0	.0	.0	*	*	.0	.0	.0	.0	.0	.1	.1
	NO PCP	.5	.7	.7	.0	.2	.1	*	.1	.0	.2	2.4	2.4
	TOT %	.5	.7	.7	*	.2	.1	*	.1	.0	.2	2.5	2.5
1<2	PCP	.1	*	.0	.0	*	.1	.0	.0	.0	.0	.2	.2
	NO PCP	.1	.3	.1	*	*	.2	.0	.1	.0	.2	.8	.8
	TOT %	.2	.3	.1	*	.1	.2	.0	.1	.0	.2	1.0	1.0
2<5	PCP	.1	*	.2	.0	.1	.2	.3	.1	.0	.1	.9	.9
	NO PCP	.1	.2	.2	*	*	.2	.4	.0	.0	.2	1.1	1.1
	TOT %	.2	.2	.4	*	.1	.3	.6	.1	.0	.1	2.0	2.0
5<10	PCP	.2	.7	.5	.6	.3	1.7	2.6	.3	.0	.1	7.0	7.0
	NO PCP	3.2	3.8	3.0	1.8	3.1	10.2	9.0	2.0	.0	.4	36.5	36.5
	TOT %	3.4	4.5	3.5	2.4	3.4	12.0	11.7	2.3	.0	.5	43.5	43.5
10+	PCP	.1	.3	.0	.1	.0	.5	.5	*	.0	.0	1.4	1.4
	NO PCP	3.6	5.6	5.5	3.1	3.9	12.5	11.5	2.8	.0	.7	49.1	49.1
	TOT %	3.7	5.9	5.5	3.2	3.9	13.0	11.9	2.8	.0	.7	50.6	50.6
TOT OBS													
TOT PCT													
		8.0	11.6	10.3	5.7	7.6	25.6	24.2	5.3	.0	1.5	100.0	1974

TABLE 9

PERCENT FREQ OF WIND DIRECTION VS WIND SPEED  
WITH VARYING VALUES OF VISIBILITY

VISBY (NM)	SPD KTS	N	NE	E	SE	S	SW	W	NW	VAR	CALM	PCT	TOTAL OBS
<1/2	0-3	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
	4-10	*	.1	.1	*	.0	*	.0	.0	.0	.0	.3	.3
	11-21	.0	.0	.1	.0	.0	.0	.0	.0	.0	.0	.1	.1
	22+	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
	TOT %	*	.1	.2	*	.0	*	.0	.0	.0	.0	.4	.4
1/2<1	0-3	.1	*	.0	.0	*	*	*	.0	.0	.1	.3	.3
	4-10	.1	.2	.3	.0	*	*	.0	.0	.0	.0	.7	.7
	11-21	.2	.3	.3	.0	.1	*	.0	.1	.0	.0	1.0	1.0
	22+	*	.1	*	*	*	.0	.0	.0	.0	.0	.2	.2
	TOT %	.5	.7	.6	*	.2	.1	*	.1	.0	.1	2.2	2.2
1<2	0-3	.0	.0	*	*	*	.1	.0	.0	.0	.1	.3	.3
	4-10	.1	.3	.0	*	.0	*	.0	*	.0	.0	.5	.5
	11-21	*	.1	.1	.0	*	*	.0	.0	.0	.0	.3	.3
	22+	.0	*	.0	.0	.0	.1	*	*	.0	.0	.2	.2
	TOT %	.1	.4	.2	.1	.1	.2	*	.1	.0	.1	1.4	1.4
2<5	0-3	*	.0	.0	.0	.0	.0	.0	.0	.0	*	.1	.1
	4-10	.1	.2	.2	*	.1	*	*	*	.0	.0	.7	.7
	11-21	.1	*	.1	*	.1	.3	.5	*	.0	.0	1.1	1.1
	22+	*	.0	.2	*	.2	.3	.2	*	.0	.0	.9	.9
	TOT %	.3	.2	.4	.1	.3	.6	.7	.1	.0	*	2.8	2.8
5<10	0-3	.4	.3	.2	.2	.3	.4	.2	.2	.0	.4	2.6	2.6
	4-10	1.5	1.7	1.6	1.4	1.1	2.8	1.9	.6	.0	.0	12.5	12.5
	11-21	.6	1.6	.9	.4	1.2	4.6	4.6	.8	.0	.0	14.7	14.7
	22+	.7	.6	.5	.3	.4	2.9	3.7	.6	.0	.0	9.7	9.7
	TOT %	3.2	4.2	3.2	2.2	3.1	10.7	10.4	2.2	.0	.4	39.4	39.4
10+	0-3	.2	.5	.3	.3	.4	.3	.4	.2	.0	1.1	3.8	3.8
	4-10	1.8	3.6	2.9	2.5	2.4	4.1	2.9	1.0	.0	.0	21.7	21.7
	11-21	1.3	2.2	2.4	.8	1.1	6.3	5.1	1.2	.0	.0	20.6	20.6
	22+	.3	.1	.2	.1	.5	2.9	3.4	.3	.0	.0	7.7	7.7
	TOT %	3.5	6.4	5.8	3.7	4.4	13.7	11.8	3.4	.0	1.1	53.8	53.8
TOT OBS													
TOT PCT													
		7.6	12.0	10.4	6.1	8.0	25.3	22.9	5.8	.0	1.8	100.0	2312

PERIOD: (PRIMARY) 1905-1969  
(OVER-ALL) 1858-1969

NOVEMBER

AREA 0009 MELBOURNE SE  
38.45 146.8E

TABLE 10

PERCENT FREQUENCY OF CEILING HEIGHTS (FEET, NH > 4/8) AND  
OCCURRENCE OF NH < 5/8 BY HOUR

HOUR (GMT)	000 149	150 299	300 599	600 999	1000 1999	2000 3499	3500 4999	5000 6499	6500 7999	8000+	TOTAL	NH < 5/8 ANY HGT	TOTAL OBS
00003	.0	.4	3.1	10.3	19.7	9.9	3.6	.4	.9	1.8	50.2	49.8	223
06009	.0	.0	1.8	5.4	14.7	9.4	3.1	.9	.4	.0	35.7	64.3	224
12015	1.0	.0	2.0	7.6	11.6	8.1	5.1	.5	.0	.5	36.4	63.6	198
18021	.0	.0	.5	7.8	16.1	7.8	3.9	.5	1.5	.5	38.5	61.5	205
TOT	2	1	16	66	133	75	33	5	6	6	343	507	850
PCT	.2	.1	1.9	7.8	15.6	8.8	3.9	.6	.7	.7	40.4	59.6	100.0

TABLE 11

PERCENT FREQUENCY VS BY (NM) BY HOUR

HOUR (GMT)	<1/2	1/2<1	1<2	2<5	5<10	10+	TOTAL OBS
00003	.6	2.3	1.1	2.1	35.7	58.2	524
06009	.7	2.2	1.8	3.0	43.0	49.3	728
12015	.4	1.7	.4	3.1	38.9	55.4	478
18021	.4	3.2	1.9	2.5	41.8	50.1	684
TOT	13	58	34	65	972	1272	2414
PCT	.5	2.4	1.4	2.7	40.3	52.7	100.0

TABLE 12

CUMULATIVE PCT FREQ OF RANGES OF VS BY (NM) AND/OR  
CEILING HGT (FEET, NH > 4/8), BY HOUR

HOUR (GMT)	<150 <500	<600 <1	<1000 <5	1000+ AND 5+	NH < 5/8 AND 5+	TOTAL OBS
00003	.0	3.8	16.1	37.0	46.9	211
06009	.0	2.0	9.4	31.2	59.4	202
12015	1.1	3.2	12.4	26.9	60.8	186
18021	.0	.6	10.5	33.1	56.4	181
TOT	2	19	95	251	434	780
PCT	.3	2.4	12.2	32.2	55.6	100.0

TABLE 13

PERCENT FREQUENCY OF RELATIVE HUMIDITY BY TEMP

TEMP F	0-29	30-39	40-49	50-59	60-69	70-79	80-89	90-100	TOTAL OBS	PCT FREQ
75/79	.1	.0	.1	.4	.2	.0	.1	.0	10	.9
70/74	.0	.0	.3	.9	.8	.7	.3	.2	37	3.2
65/69	.0	.0	.1	.3	1.6	2.2	1.4	1.2	80	6.9
60/64	.0	.0	.3	.4	4.7	7.9	10.5	4.5	329	28.4
55/59	.0	.0	.3	1.0	7.3	16.2	15.8	6.5	545	47.1
50/54	.0	.0	.0	.3	3.2	4.4	3.4	1.2	145	12.5
45/49	.0	.0	.0	.0	.1	.3	.6	.0	11	1.0
TOTAL	1	0	12	41	207	367	372	157	1167	100.0
PCT	.1	.0	1.0	3.5	17.9	31.7	32.2	13.6		

TABLE 14

PERCENT FREQUENCY OF WIND DIRECTION BY TEMP

N	NE	E	SE	S	SW	W	NW	V&R	CALM
.2	.1	.1	.0	.1	*	.1	.2	.0	.2
.8	.9	.5	.0	.4	.3	.3	*	.0	.0
1.4	1.7	.4	.3	.6	1.1	*	1.0	.0	.4
2.3	5.2	4.1	1.6	1.7	6.2	4.9	1.6	.0	.9
1.3	3.1	5.0	2.5	3.1	13.9	15.6	1.9	.0	.7
.3	.2	.3	1.2	1.2	4.0	4.5	.8	.0	.0
.0	.0	.0	.0	.0	.3	.6	.1	.0	.0
6.3	11.1	10.4	5.6	7.0	25.8	26.0	5.6	.0	2.2

TABLE 15

MEANS, EXTREMES AND PERCENTILES OF TEMP (DEG F) BY HOUR

HOUR (GMT)	MAX	99%	95%	50%	5%	1%	MIN	MEAN	TOTAL OBS
00003	81	73	69	60	54	51	49	60.4	787
06009	82	74	68	59	53	51	48	59.8	945
12015	74	70	64	57	52	49	47	57.6	603
18021	79	68	64	57	52	50	48	57.5	974
TOT	82	73	67	58	53	50	47	58.9	3229

TABLE 16

PERCENT FREQUENCY OF RELATIVE HUMIDITY BY HOUR

HOUR (GMT)	0-29	30-39	60-69	70-79	80-89	90-100	MEAN	TOTAL OBS
00003	.0	8.8	21.2	33.0	24.9	12.1	76	297
06009	.0	4.8	21.9	33.3	31.2	8.7	76	333
12015	.0	2.0	12.1	29.6	37.7	18.6	80	247
18021	.3	1.9	13.4	29.3	37.6	17.5	80	314
TOT	1	55	208	374	389	166	78	1191

PERIOD: (PRIMARY) 1905-1969  
(OVER-ALL) 1858-1969

NOVEMBER

AREA 0009 MELBOURNE SE  
38.45 146.8E

TABLE 17

PCT FREQ OF AIR TEMPERATURE (DEG F) AND THE OCCURRENCE OF FOG (WITHOUT PRECIPITATION)  
VS AIR-SEA TEMPERATURE DIFFERENCE (DEG F)

AIR-SEA TMP DIF	45	49	53	57	61	65	69	73	77	81	TOT	W FOG	WD FOG
	48	52	56	60	64	68	72	76	80	84			
20/22	.0	.0	.0	.0	.0	.0	.0	.1	.0	.0	2	.0	.1
17/19	.0	.0	.0	.0	.0	.0	.0	.1	.1	.0	3	.0	.2
14/16	.0	.0	.0	.0	.0	.1	.1	.1	.1	.0	5	.0	.3
11/13	.0	.0	.0	.0	.1	.1	.3	.5	.0	.1	16	.0	.9
9/10	.0	.0	.0	.1	.1	.6	.5	.3	.0	.0	25	.1	1.4
7/8	.0	.0	.1	.1	.8	1.6	.7	.0	.0	.0	55	.2	3.0
6	.0	.0	.0	.2	.5	.7	.1	.1	.0	.0	28	.1	1.5
5	.0	.0	.0	.2	1.7	.8	.1	.0	.0	.0	47	.2	2.6
4	.0	.0	.1	.8	2.7	.9	.1	.0	.0	.0	80	.5	4.2
3	.0	.0	.2	2.4	2.4	.5	.0	.0	.0	.0	94	.2	5.3
2	.0	.0	.3	4.4	4.0	.5	.0	.0	.0	.0	159	.8	8.5
1	.0	.2	.8	6.8	2.9	.1	.0	.0	.0	.0	184	1.0	9.7
0	.0	.1	3.0	10.5	2.8	.1	.0	.0	.0	.0	283	1.2	15.3
-1	.0	.1	4.3	6.3	.6	.1	.0	.0	.0	.0	195	.5	10.9
-2	.0	.2	6.1	4.7	.7	.0	.0	.0	.0	.0	202	.2	11.5
-3	.0	.3	4.8	1.8	.4	.1	.0	.0	.0	.0	127	.2	7.2
-4	.1	.9	3.4	1.3	.2	.1	.0	.0	.0	.0	102	.1	5.9
-5	.0	.9	2.2	.6	.2	.0	.0	.0	.0	.0	67	.0	3.9
-6	.0	.3	.5	.2	.2	.0	.0	.0	.0	.0	20	.0	1.2
-7/-8	.0	.5	.4	.2	.0	.0	.0	.0	.0	.0	19	.0	1.1
-9/-10	.0	.0	.1	.1	.0	.0	.0	.0	.0	.0	4	.0	.2
TOTAL	1	57	451	701	347	106	31	17	5	1	1717	86	1631
PCT	.1	3.3	26.3	40.8	20.2	6.2	1.8	1.0	.3	.1	100.0	5.0	95.0

PERIOD: (OVER-ALL) 1963-1969

TABLE 18

PCT FREQ OF WIND SPEED (KTS) AND DIRECTION VERSUS SEA HEIGHTS (FT)

HGT	1-3	4-10	11-21	22-33	34-47	48+	PCT	1-3	4-10	11-21	22-33	34-47	48+	PCT
<1	.2	.5	.0	.0	.0	.0	.6	.3	.6	.0	.0	.0	.0	.9
1-2	.2	2.4	.1	.0	.0	.0	2.7	.0	1.7	.6	.0	.0	.0	2.3
3-4	.0	1.1	1.1	.0	.0	.0	2.2	.0	2.1	1.9	.0	.0	.0	4.0
5-6	.0	.0	.5	.2	.0	.0	.7	.0	.2	1.9	.4	.0	.0	2.6
7	.0	.3	.0	.2	.0	.0	.5	.0	*	.7	.2	.0	.0	.9
8-9	.0	.0	.1	.0	.0	.0	.1	.0	.0	*	.0	.0	.0	*
10-11	.0	.0	.0	.2	.0	.0	.2	.0	.0	.0	.0	.0	.0	.0
12	.0	.0	.0	.2	.0	.0	.2	.0	.2	.0	.0	.0	.0	.2
13-16	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
17-19	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
20-22	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
23-25	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
26-32	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
33-40	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
41-48	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
49-60	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
61-70	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
71-86	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
87+	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
TOT PCT	.3	4.3	1.9	.7	.0	.0	7.2	.5	4.8	5.1	.6	.0	.0	11.0

HGT	1-3	4-10	11-21	22-33	34-47	48+	PCT	1-3	4-10	11-21	22-33	34-47	48+	PCT
<1	.2	.6	.0	.0	.0	.0	.7	*	.7	.0	.0	.0	.0	.8
1-2	.3	2.2	.7	.0	.0	.0	3.2	.0	1.6	.2	.0	.0	.0	1.8
3-4	.0	1.8	2.3	.2	.0	.0	4.3	.0	.2	.6	.0	.0	.0	.8
5-6	.0	.0	3.1	.8	.0	.0	3.9	.0	.0	.3	.0	.0	.0	.3
7	.0	.0	.2	.0	.0	.0	.2	.0	.0	.3	.3	.0	.0	.7
8-9	.0	.0	.2	.2	.0	.0	.3	.0	.0	.0	.0	.0	.0	.0
10-11	.0	.0	.0	.0	.2	.0	.2	.0	.0	.0	*	.0	.0	*
12	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	*	.0	.0	*
13-16	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.2	.0	.2
17-19	.0	.0	.0	.0	.0	.0	.0	.0	.2	.0	.0	.0	.0	.2
20-22	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
23-25	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
26-32	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
33-40	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
41-48	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
49-60	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
61-70	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
71-86	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
87+	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
TOT PCT	.5	4.6	6.4	1.2	.2	.0	12.8	.1	2.7	1.5	.4	.2	.0	4.9

PERIOD: (OVER-ALL) 1963-1969

NOVEMBER

AREA 0009 MELBOURNE SE  
38.45 146.8E

TABLE 18 (CONT)

PCT FREQ OF WIND SPEED (KTS) AND DIRECTION VERSUS SEA HEIGHTS (FT)

HGT	1-3	4-10	11-21	22-33	34-47	48+	PCT	1-3	4-10	11-21	22-33	34-47	48+	PCT
<1	.1	.5	.0	.0	.0	.0	.6	.2	.5	.0	.0	.0	.0	.7
1-2	.0	1.3	.0	.0	.0	.0	1.3	.2	3.0	1.4	.0	.0	.0	4.6
3-4	.0	.7	1.0	.0	.0	.0	1.7	.0	2.6	3.8	.8	.0	.0	7.2
5-6	.0	.0	.3	.4	.0	.0	.7	.0	.5	4.1	1.7	.0	.0	6.3
7	.0	.0	.3	.0	.0	.0	.3	.0	.0	1.4	1.5	.0	.0	2.9
8-9	.0	.0	.0	.0	.1	.0	.1	.0	.0	.4	.6	.2	.2	1.4
10-11	.0	.0	.0	.3	.0	.0	.3	.0	.0	.2	.6	.0	.0	.8
12	.0	.0	.0	.1	.0	.0	.1	.0	.0	.0	.6	.2	.0	.7
13-16	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.2	.3	.0	.5
17-19	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
20-22	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
23-25	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
26-32	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
33-40	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
41-48	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
49-60	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
61-70	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
71-86	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
87+	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
TOT PCT	.1	2.5	1.6	.8	.1	.0	5.2	.4	6.6	11.3	5.9	.8	.2	25.1

HGT	1-3	4-10	11-21	22-33	34-47	48+	PCT	1-3	4-10	11-21	22-33	34-47	48+	PCT	TOTAL PCT
<1	.5	.7	.0	.0	.0	.0	1.2	.0	.4	.0	.0	.0	.0	.4	
1-2	.0	2.6	.9	.0	.0	.0	3.5	.0	1.5	.4	.0	.0	.0	2.0	
3-4	.1	1.6	3.9	.4	.0	.0	6.1	.0	.3	.8	.0	.0	.0	1.0	
5-6	.0	.2	4.7	1.3	.0	.0	6.1	.0	.2	.4	.2	.0	.0	.8	
7	.0	.0	1.9	1.0	.0	.0	2.9	.0	.0	.1	.0	.2	.0	.3	
8-9	.0	.0	.8	1.3	.9	.0	3.0	.0	.0	.0	.1	.0	.0	.1	
10-11	.0	.0	.0	1.2	.6	.0	1.8	.0	.0	.0	.0	.0	.0	.0	
12	.0	.0	.0	.6	.3	.0	1.0	.0	.0	.0	.0	.0	.0	.0	
13-16	.0	.0	.0	.5	.3	.0	.9	.0	.0	.0	.0	.0	.0	.0	
17-19	.0	.0	.0	.3	.0	.0	.3	.0	.0	.0	.0	.0	.0	.0	
20-22	.0	.0	.0	.2	.0	.0	.3	.0	.0	.0	.0	.0	.0	.0	
23-25	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
26-32	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
33-40	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
41-48	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
49-60	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
61-70	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
71-86	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
87+	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
TOT PCT	.6	5.0	12.3	6.9	2.3	.0	27.2	.0	2.3	1.7	.3	.2	.0	4.5	97.8

WIND SPEED (KTS) VS SEA HEIGHT (FT)

HGT	0-3	4-10	11-21	22-33	34-47	48+	PCT	TOT DBS
<1	4.9	4.4	.0	.0	.0	.0	9.3	
1-2	.8	16.2	4.2	.0	.0	.0	21.2	
3-4	.2	10.3	15.2	1.3	.0	.0	26.9	
5-6	.2	1.0	15.2	4.9	.0	.0	21.2	
7	.0	.3	4.9	3.2	.2	.0	8.6	
8-9	.0	.0	1.5	2.2	1.2	.2	5.1	
10-11	.0	.0	.2	2.2	.8	.0	3.2	
12	.0	.2	.0	1.5	.5	.0	2.2	
13-16	.0	.0	.0	.7	.8	.0	1.5	
17-19	.0	.2	.0	.3	.0	.0	.5	
20-22	.0	.0	.0	.2	.2	.0	.3	
23-25	.0	.0	.0	.0	.0	.0	.0	
26-32	.0	.0	.0	.0	.0	.0	.0	
33-40	.0	.0	.0	.0	.0	.0	.0	
41-48	.0	.0	.0	.0	.0	.0	.0	
49-60	.0	.0	.0	.0	.0	.0	.0	
61-70	.0	.0	.0	.0	.0	.0	.0	
71-86	.0	.0	.0	.0	.0	.0	.0	
87+	.0	.0	.0	.0	.0	.0	.0	
TOT PCT	6.1	32.5	41.1	16.5	3.7	.2	100.0	594

PERIOD: (OVER-ALL) 1949-1969

TABLE 19

PERCENT FREQUENCY OF WAVE HEIGHT (FT) VS WAVE PERIOD (SECONDS)

PERIOD (SEC)	<1	1-2	3-4	5-6	7	8-9	10-11	12	13-16	17-19	20-22	23-25	26-32	33-40	41-48	49-60	61-70	71-86	87+	TOTAL	MEAN HGT
<6	1.2	7.7	9.7	8.5	2.0	2.2	.1	.3	.5	.3	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	238
6-7	.0	.4	6.1	9.8	7.2	3.3	3.3	1.8	.4	.4	.1	.0	.0	.0	.0	.0	.0	.0	.0	.0	241
8-9	.0	.5	1.6	3.7	4.2	2.9	2.7	1.5	1.5	.1	.7	.0	.0	.0	.0	.0	.0	.0	.0	.0	143
10-11	.0	.3	.3	.8	1.1	.7	.7	.7	.7	.0	.1	.0	.0	.0	.0	.0	.0	.0	.0	.0	39
12-13	.0	.0	.4	.5	.4	.4	.0	.1	.1	.5	.0	.3	.0	.0	.0	.0	.0	.0	.0	.0	21
>13	.0	.0	.0	.1	.0	.0	.0	.0	.0	.0	.0	.0	.1	.0	.0	.0	.0	.0	.0	.0	2
INDET	1.6	1.1	1.0	1.5	.8	.4	.1	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	48
TOTAL	21	73	140	183	116	72	51	32	74	10	7	2	1	0	0	0	0	0	0	0	732
PCT	2.9	10.0	19.1	25.0	15.8	9.8	7.0	4.4	3.3	1.4	1.0	.3	.1	.0	.0	.0	.0	.0	.0	.0	100.0



PERIOD: (PRIMARY) 1891-1969  
(OVER-ALL) 1857-1969

DECEMBER

AREA 0009 MELBOURNE SE  
38.45 146.9E

TABLE 1

PERCENT FREQUENCY OF WEATHER OCCURRENCE BY WIND DIRECTION

WIND DIR	PRECIPITATION TYPE							OTHER WEATHER PHENOMENA							NO SIG WEA
	RAIN	RAIN SHWR	DRZL	FRZG PCPN	SNOW	OTHER FRZN PCPN	HAIL	PCPN AT OB TIME	PCPN PAST HOUR	THOR LTNG	FOG WD PCPN	FOG WD PCPN PAST HR	SMOKE HAZE	SPRAY BLWG DUST	
N	2.4	.9	1.5	.0	.0	.0	.0	4.9	.0	1.3	12.8	.0	.9	.0	80.1
NE	1.9	.6	2.0	.0	.0	.0	.0	4.6	.1	1.2	9.3	.0	3.3	.0	82.0
E	1.8	1.0	1.9	.0	.0	.0	.0	4.7	1.3	1.6	13.2	.0	2.9	.0	76.4
SE	5.1	1.7	3.0	.0	.0	.0	.0	9.8	.5	.8	3.3	.0	1.7	.0	83.9
S	5.3	3.3	.7	.0	.0	.0	.0	9.3	.3	2.0	3.5	.0	.3	.0	85.4
SW	5.0	5.0	1.2	.0	.0	.0	.3	11.4	.7	1.8	1.6	.0	.8	.0	84.4
W	3.7	7.1	1.4	.0	.0	.0	.1	12.4	1.6	1.7	2.9	.0	.9	.0	81.0
NW	1.7	5.1	1.7	.0	.0	.0	.0	8.4	2.2	4.5	5.6	.0	.3	.0	78.9
VAR	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
CALM	.0	5.0	.0	.0	.0	.0	.0	5.0	5.0	.0	10.0	.0	.0	.0	80.0
TOT PCT	3.6	3.5	1.6	.0	.0	.0	.1	8.8	.9	1.7	5.7	.0	1.4	.0	81.9
TOT OBS:	2037														

TABLE 2

PERCENT FREQUENCY OF WEATHER OCCURRENCE BY HOUR

HOUR (GMT)	PRECIPITATION TYPE							OTHER WEATHER PHENOMENA							NO SIG WEA
	RAIN	RAIN SHWR	DRZL	FRZG PCPN	SNOW	OTHER FRZN PCPN	HAIL	PCPN AT OB TIME	PCPN PAST HOUR	THOR LTNG	FOG WD PCPN	FOG WD PCPN PAST HR	SMOKE HAZE	SPRAY BLWG DUST	
00003	5.3	2.9	1.1	.0	.0	.0	.0	9.3	1.8	.4	6.4	.0	1.3	.0	80.8
06009	3.1	3.4	1.2	.0	.0	.0	.2	7.9	.6	1.2	7.1	.0	1.9	.0	81.9
12015	3.9	3.4	1.1	.0	.0	.0	.0	8.4	.5	4.1	2.5	.0	1.4	.0	84.1
18021	3.5	4.1	2.3	.0	.0	.0	.2	10.1	.7	2.2	6.0	.0	.8	.0	80.4
TOT PCT	3.8	3.5	1.5	.0	.0	.0	.1	8.9	.8	1.9	5.7	.0	1.4	.0	81.7
TOT OBS:	2141														

TABLE 3

PERCENTAGE FREQUENCY OF WIND DIRECTION BY SPEED AND BY HOUR

WIND DIR	WIND SPEED (KNOTS)							TOTAL OBS	PCT FREQ	MEAN SPD	HOUR (GMT)							
	0-3	4-10	11-21	22-33	34-47	48+	00				03	06	09	12	15	18	21	
N	.5	3.3	1.5	.6	*	*		5.9	10.9		6.6	7.5	2.5	5.8	2.2	7.2	6.9	7.9
NE	.6	6.1	4.6	.9	.1	*		12.2	11.6		17.8	11.0	10.5	10.7	8.4	12.6	14.1	14.3
E	1.0	5.9	4.9	.9	*	.0		12.7	11.3		11.8	10.3	14.6	12.5	17.0	12.4	12.3	12.7
SE	.9	4.6	2.6	.6	.1	.0		8.8	10.5		7.6	7.8	11.0	9.7	8.1	8.6	8.6	7.5
S	1.3	5.0	3.2	.9	.2	.0		11.4	10.5		7.1	12.2	15.1	13.5	13.8	8.6	10.0	9.2
SW	1.2	8.9	11.0	3.7	.7	*		25.4	14.4		24.9	28.1	20.5	29.0	20.3	25.4	22.4	23.7
W	.7	4.8	7.5	3.7	.5	*		17.3	15.7		19.5	16.2	14.9	14.1	24.4	17.8	19.5	16.8
NW	.3	2.4	1.2	.3	.1	.0		4.3	10.8		3.8	4.7	3.6	3.3	3.8	4.7	5.0	5.2
VAR	.0	.0	.0	.0	.0	.0		.0	.0		.0	.0	.0	.0	.0	.0	.0	.0
CALM	1.8							1.8	.0		1.0	2.2	1.4	1.5	2.0	2.6	1.4	2.7
TOT OBS	258	1292	1123	355	51	3	3082		12.5		204	507	518	391	203	382	505	372
TOT PCT	8.4	41.9	36.4	11.5	1.7	.1		100.0			100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0

TABLE 3A

WIND DIR	0-6	WIND SPEED (KNOTS)				41+	TOTAL OBS	PCT FREQ	MEAN SPD	HOUR (GMT)				
		7-16	17-27	28-40	00 03					06 09	12 15	18 21		
N	2.2	2.4	1.1	.3	*		5.9	10.9	7.2	3.9	5.5	7.3		
NE	3.0	6.3	2.7	.1	.1		12.2	11.6	12.9	10.6	11.1	14.2		
E	3.1	6.9	2.4	.2	.0		12.7	11.3	10.7	13.7	14.0	12.5		
SE	2.6	4.7	1.3	.2	*		8.8	10.5	7.8	10.5	8.5	8.1		
S	4.1	5.3	1.5	.5	*		11.4	10.5	10.7	14.4	10.4	9.6		
SW	4.3	11.2	7.6	2.0	.2		25.4	14.4	27.1	27.6	23.6	22.9		
W	2.3	7.3	6.1	1.5	.1		17.3	15.7	17.2	14.5	20.1	18.4		
NW	1.4	2.0	.9	.1	.0		4.3	10.8	4.5	3.5	4.4	5.1		
VAR	.0	.0	.0	.0	.0		.0	.0	.0	.0	.0	.0		
CALM	1.8						1.8	.0	1.8	1.4	2.4	1.9		
TOT OBS	768	1420	727	153	14	3082		12.5	711	909	585	877		
TOT PCT	24.9	46.1	23.6	5.0	.5		100.0		100.0	100.0	100.0	100.0		

DECEMBER

PERIOD: (PRIMARY) 1891-1969  
(OVER-ALL) 1857-1969

AREA 0009 MELBOURNE SE  
38.45 146.9E

TABLE 4

PERCENTAGE FREQUENCY OF WIND SPEED BY HOUR (GMT)

HOUR	CALM	1-3	4-10	WIND SPEED (KNOTS)			48+	MEAN	PCT FREQ	TOTAL OBS
				11-21	22-33	34-47				
00603	1.8	9.1	36.3	38.7	12.7	1.4	.0	12.5	100.0	711
06609	1.4	7.0	37.5	37.5	14.0	2.3	.2	13.4	100.0	909
12615	2.4	5.3	44.8	36.1	9.2	2.1	.2	12.3	100.0	585
18621	1.9	4.7	49.1	33.8	9.6	.9	.0	11.6	100.0	877
TOT	57	201	1292	1123	355	51	3	12.5		3082
PCT	1.8	6.5	41.9	36.4	11.5	1.7	.1	100.0		

TABLE 5

PCT FREQ OF TOTAL CLOUD AMOUNT (EIGHTHS)  
BY WIND DIRECTION

WIND DIR	0-2	3-4	5-7	8 & OBSCD	TOTAL OBS	MEAN CLOUD COVER
N	1.4	.3	1.1	.8	4.2	
NE	6.9	1.4	2.9	2.9	3.5	
E	6.4	1.7	2.9	3.7	3.9	
SE	3.4	.6	1.8	3.2	4.6	
S	2.9	1.7	3.3	2.4	4.6	
SW	4.1	3.4	9.5	6.2	5.3	
W	4.1	3.8	7.1	5.5	5.2	
NW	1.4	.3	.9	.8	4.2	
VAR	.0	.0	.0	.0	.0	
CALM	.5	.2	.0	.8	5.0	
TOT OBS	201	86	191	170	648	4.6
TOT PCT	31.0	13.3	29.5	26.2	100.0	

TABLE 6

PERCENTAGE FREQUENCY OF CEILING HEIGHTS (FT, NH >4/8)  
AND OCCURRENCE OF NH <5/8 BY WIND DIRECTION

000	150	300	600	1000	2000	3500	5000	6500	8000+	NH <5/8	TOTAL
149	299	599	999	1999	3499	4999	6499	7999		ANY HGT	OBS
.0	.0	.0	.3	.4	.0	.2	.0	.0	.2	2.6	
.3	.0	.0	1.2	.9	.9	.0	.0	.0	.3	10.3	
.0	.3	.0	1.0	1.5	1.1	.3	.0	.2	.3	9.9	
.0	*	.2	1.0	1.9	.5	1.0	.0	.0	.0	4.4	
.0	.0	.2	1.1	1.9	.8	.5	.0	.0	.1	5.7	
.0	.0	.2	1.4	5.7	2.0	1.9	.5	.0	.1	11.6	
.2	.0	.8	2.6	3.7	1.9	1.1	.0	.0	.2	10.0	
.0	.0	.2	.6	.5	.0	.0	.0	.0	.0	2.0	
.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
.0	.0	.0	.0	.5	.2	.2	.0	.0	.0	.6	
.3	2	10	60	110	48	33	3	1	7	371	648
.5	.3	1.5	9.3	17.0	7.4	5.1	.5	.2	1.1	57.3	100.0

TABLE 7

CUMULATIVE PCT FREQ OF SIMULTANEOUS OCCURRENCE  
OF CEILING HEIGHT (NH >4/8) AND VSBY (NM)

CEILING (FEET)	VSBY (NM)							
	>10	>5	>2	>1	>1/2	>1/4	>50YD	>0
>6500	1.1	1.1	1.2	1.2	1.2	1.2	1.2	1.2
>5000	1.4	1.5	1.7	1.7	1.7	1.7	1.7	1.7
>3500	5.4	6.3	6.6	6.6	6.6	6.6	6.8	6.8
>2000	11.8	13.7	14.0	14.0	14.0	14.0	14.2	14.2
>1000	24.2	29.9	30.4	30.8	31.0	31.0	31.1	31.1
>600	30.2	39.1	39.9	40.3	40.5	40.5	40.6	40.6
>300	30.8	40.5	41.4	41.8	42.0	42.0	42.1	42.1
>150	30.8	40.6	41.5	42.1	42.3	42.3	42.4	42.4
>0	30.8	40.6	41.8	42.4	42.6	42.6	42.9	42.9
TOTAL	204	269	277	281	282	282	284	284

TOTAL NUMBER OF OBS: 662

PCT FREQ NH <5/8: 57.1

TABLE 7A

PERCENTAGE FREQ OF LOW CLOUDS (EIGHTHS)

0	1	2	3	4	5	6	7	8	OBSCD	TOTAL OBS
14.4	16.4	13.0	7.2	6.4	5.3	10.0	7.0	19.9	.4	752

PERIOD: (PRIMARY) 1891-1969  
(OVER-ALL) 1857-1969

DECEMBER

AREA 0009 MELBOURNE SE  
38.45 146.9E

TABLE 8

PERCENT FREQ OF WIND DIRECTION VS OCCURRENCE OR NON-OCCURRENCE OF  
PRECIPITATION WITH VARYING VALUES OF VISIBILITY

VSBY (NM)		N	NE	E	SE	S	SW	W	NW	VAR	CALM	PCT	TOTAL OBS
<1/2	PCP	.0	.0	.0	.0	*	*	.0	.0	.0	.0	*	
	NO PCP	.3	.1	.2	.0	.0	*	.0	.1	.0	.0	.8	
	TOT %	.3	.1	.2	.0	*	.1	.0	.1	.0	.0	.8	
1/2<1	PCP	*	*	*	.0	*	.1	.1	.0	.0	.0	.3	
	NO PCP	.5	1.0	1.5	.2	.4	.3	.5	.2	.0	.0	4.5	
	TOT %	.5	1.1	1.6	.2	.4	.4	.6	.2	.0	.0	4.9	
1<2	PCP	.0	.0	*	*	.1	.2	.0	.0	.0	.0	.4	
	NO PCP	*	.1	.2	*	*	.1	.1	.0	.0	.0	.6	
	TOT %	*	.1	.2	.1	.2	.2	.1	.0	.0	.0	1.0	
2<5	PCP	.0	.1	.3	.1	.1	.1	.1	.0	.0	.0	.8	
	NO PCP	.0	.2	.3	.1	.1	.2	.1	.1	.0	.0	1.1	
	TOT %	.0	.3	.5	.3	.2	.3	.2	.1	.0	.0	1.9	
5<10	PCP	.2	.4	.2	.6	.6	1.9	1.5	.3	.0	.0	5.7	
	NO PCP	2.3	5.4	5.6	4.0	4.2	10.4	8.1	2.0	.0	.3	42.2	
	TOT %	2.4	5.8	5.9	4.6	4.8	12.3	9.6	2.3	.0	.3	48.0	
10+	PCP	*	.1	.1	.1	.2	.4	.5	*	.0	*	1.5	
	NO PCP	2.2	5.2	5.6	4.2	5.4	9.8	7.3	1.7	.0	.6	41.9	
	TOT %	2.3	5.3	5.6	4.3	5.5	10.1	7.8	1.8	.0	.6	43.4	
TOT OBS		2037											
TOT PCT		5.6	12.7	14.1	9.4	11.1	23.5	18.4	4.4	.0	1.0	100.0	

TABLE 9

PERCENT FREQ OF WIND DIRECTION VS WIND SPEED  
WITH VARYING VALUES OF VISIBILITY

VSBY (NM)	SPD KTS	N	NE	E	SE	S	SW	W	NW	VAR	CALM	PCT	TOTAL OBS
<1/2	0-3	.0	.0	.1	*	.0	.0	.0	.0	.0	.1	.2	
	4-10	.1	.1	.1	*	.0	*	*	.0	.0	.0	.5	
	11-21	.1	.0	*	.0	*	*	*	.0	.0	.0	.2	
	22+	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
	TOT %	.2	.1	.3	.1	*	.1	*	.1	.0	.1	.9	
1/2<1	0-3	.0	.0	.2	.0	.1	.0	*	.0	.0	.0	.3	
	4-10	.2	.7	.9	.1	.1	.1	.1	.1	.0	.0	2.3	
	11-21	.2	.3	.3	*	.1	.2	.3	*	.0	.0	1.5	
	22+	.1	.2	.1	*	.0	*	*	*	.0	.0	.4	
	TOT %	.4	1.1	1.5	.2	.4	.3	.5	.2	.0	.0	4.6	
1<2	0-3	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
	4-10	*	*	.1	.1	.1	*	*	.0	.0	.0	.4	
	11-21	*	*	.1	*	*	.1	.1	.0	.0	.0	.3	
	22+	.0	*	*	*	.1	.1	*	.0	.0	.0	.4	
	TOT %	.1	.1	.2	.1	.2	.3	.1	.0	.0	.0	1.1	
2<5	0-3	.0	.0	*	*	.0	.0	.0	.0	.0	*	.1	
	4-10	*	.1	.1	.1	.1	.1	.1	.1	.0	.0	.9	
	11-21	.0	.2	.3	*	*	.2	.1	.0	.0	.0	.9	
	22+	.0	*	.1	.1	.1	.1	*	.0	.0	.0	.5	
	TOT %	*	.3	.6	.3	.2	.4	.3	.1	.0	*	2.3	
5<10	0-3	.2	.2	.5	.4	.4	.7	.4	.2	.0	.3	3.3	
	4-10	1.3	2.6	2.3	2.0	2.1	3.9	2.1	1.0	.0	.0	17.4	
	11-21	.5	1.9	1.9	1.3	1.2	4.5	4.0	.5	.0	.0	15.8	
	22+	.3	.5	.5	.4	.6	2.2	2.1	.3	.0	.0	6.9	
	TOT %	2.3	5.2	5.2	4.1	4.3	11.3	8.6	2.0	.0	.3	43.3	
10+	0-3	.3	.3	.1	.4	.5	.5	.3	.1	.0	1.0	3.6	
	4-10	1.6	2.7	2.7	2.2	3.4	4.4	2.6	1.1	.0	.0	20.6	
	11-21	.6	2.2	2.4	1.5	1.8	6.1	3.7	.6	.0	.0	18.9	
	22+	.1	.3	.2	.1	.3	1.8	1.9	.1	.0	.0	4.7	
	TOT %	2.5	5.5	5.4	4.2	6.0	12.7	8.5	1.8	.0	1.0	47.7	
TOT OBS		2348											
TOT PCT		5.6	12.3	13.1	9.0	11.2	25.1	18.1	4.2	.0	1.4	100.0	

DECEMBER

PERIOD: (PRIMARY) 1891-1969  
(OVER-ALL) 1857-1969

AREA 0009 MELBOURNE SE  
38.45 146.9E

TABLE 10

PERCENT FREQUENCY OF CEILING HEIGHTS (FEET, NH >4/8) AND  
OCCURRENCE OF NH <5/8 BY HOUR

HOUR (GMT)	000	150	300	600	1000	2000	3500	5000	6500	8000+	TOTAL	NH <5/8 ANY HGT	TOTAL DBS
00003	.5	.0	2.0	9.6	18.2	8.6	4.5	.5	.0	.5	44.4	55.6	198
06009	.0	.5	1.6	5.9	11.7	4.8	6.4	1.1	.0	1.1	33.0	67.0	188
12015	.0	.0	1.7	8.1	15.0	6.4	4.0	.0	.6	.6	36.4	63.6	173
18021	1.3	.6	.0	12.2	17.9	7.7	3.8	.0	.0	1.9	45.5	54.5	156
TOT	3	2	10	63	112	49	34	3	1	7	284	431	715
PCT	.4	.3	1.4	8.8	15.7	6.9	4.8	.4	.1	1.0	39.7	60.3	100.0

TABLE 11

PERCENT FREQUENCY VSBY (NM) BY HOUR

HOUR (GMT)	<1/2	1/2<1	1<2	2<5	5<10	10+	TOTAL DBS
00003	1.4	4.7	.6	1.6	36.6	55.1	508
06009	.7	6.3	1.6	2.7	46.4	42.3	743
12015	.6	1.6	.8	1.8	44.4	50.8	498
18021	1.1	4.4	1.0	2.7	48.4	42.4	703
TOT	23	110	26	56	1092	1145	2452
PCT	.9	4.5	1.1	2.3	44.5	46.7	100.0

TABLE 12

CUMULATIVE PCT FREQ OF RANGES OF VSBY (NM) AND/OR  
CEILING HGT (FEET, NH >4/8) BY HOUR

HOUR (GMT)	<150 <500	<600 <1	<1000 <5	1000+ AND 5+	NH <5/8 AND 5+	TOTAL DBS
00003	.5	3.2	14.6	33.0	52.4	185
06009	.0	3.0	11.2	26.6	62.1	169
12015	.0	1.8	11.0	27.4	61.6	164
18021	1.4	2.1	17.4	32.6	50.0	144
TOT	3	17	89	198	375	662
PCT	.5	2.6	13.4	29.9	56.6	100.0

TABLE 13

PERCENT FREQUENCY OF RELATIVE HUMIDITY BY TEMP

TEMP F	0-29	30-39	40-49	50-59	60-69	70-79	80-89	90-100	TOTAL DBS	PCT FREQ
80/84	.0	.0	.0	.1	.0	.0	.0	.0	1	.1
75/79	.0	.0	.3	.0	.4	.1	.0	.0	8	.8
70/74	.0	.0	.0	.0	.5	.7	.4	.3	19	2.0
65/69	.0	.0	.1	1.1	1.1	2.7	5.1	1.8	105	10.9
60/64	.0	.0	.0	1.5	5.7	12.1	13.5	9.4	407	42.2
55/59	.0	.0	.0	.8	7.5	14.5	11.5	6.0	389	40.4
50/54	.0	.0	.0	.2	.6	1.3	.8	.6	35	3.6
TOTAL	0	0	4	26	153	304	302	175	964	100.0
PCT	.0	.0	.4	2.7	15.9	31.5	31.3	18.2		

TABLE 14

PERCENT FREQUENCY OF WIND DIRECTION BY TEMP

N	NE	E	SE	S	SW	W	NW	VAR	CALM
.0	.1	.1	.0	.0	.0	.0	.0	.0	.0
.3	.1	.1	.1	.2	.0	.0	.0	.0	.0
.3	.5	.3	.5	.3	.1	.0	.0	.0	.0
.9	2.7	2.2	1.0	.9	1.8	.6	.3	.0	.4
1.7	6.9	8.4	3.7	5.7	7.9	6.1	1.3	.0	.6
.5	2.5	3.0	4.5	4.4	14.1	9.8	1.5	.0	.2
.1	.0	.0	.2	.1	1.4	1.7	.1	.0	.0
3.8	12.7	13.9	9.6	11.6	25.7	18.2	3.2	.0	1.2

TABLE 15

MEANS, EXTREMES AND PERCENTILES OF TEMP (DEG F) BY HOUR

HOUR (GMT)	MAX	99%	95%	50%	5%	1%	MIN	MEAN	TOTAL DBS
00003	82	75	70	62	56	53	50	62.5	705
06009	82	75	59	62	56	54	53	62.0	904
12015	80	70	56	59	55	52	51	59.8	602
18021	75	69	56	59	55	53	51	59.8	899
TOT	82	73	68	61	55	53	50	61.0	3110

TABLE 16

PERCENT FREQUENCY OF RELATIVE HUMIDITY BY HOUR

HOUR (GMT)	0-29	30-59	60-69	70-79	80-89	90-100	MEAN	TOTAL DBS
00003	.0	4.1	18.1	29.2	32.9	15.6	78	243
06009	.0	5.0	21.6	31.2	28.4	13.8	77	282
12015	.0	.4	10.7	32.4	32.4	24.0	82	225
18021	.0	2.4	11.9	31.0	32.1	22.6	81	252
TOT	0	31	159	310	314	188	80	1002

DECEMBER

PERIOD: (PRIMARY) 1891-1969  
(OVER-ALL) 1857-1969

AREA 0009 MELBOURNE SE  
38.45 146.9E

TABLE 17

PCT FREQ OF AIR TEMPERATURE (DEG F) AND THE OCCURRENCE OF FOG (WITHOUT PRECIPITATION)  
VS AIR-SEA TEMPERATURE DIFFERENCE (DEG F)

AIR-SEA TMP DIF	49 52	53 56	57 60	61 64	65 68	69 72	73 76	77 80	81 84	TOT FOG	N FOG	WD FOG
14/16	.0	.0	.0	.0	.1	.0	.1	.0	.1	3	.0	.2
11/13	.0	.0	.0	.0	.0	.2	.1	.1	.0	6	.0	.3
9/10	.0	.0	.0	.1	.1	.4	.2	.1	.0	13	.1	.7
7/8	.0	.0	.0	.1	.8	.6	.2	.0	.0	31	.1	1.6
6	.0	.0	.1	.2	.8	.5	.0	.0	.0	28	.2	1.3
5	.0	.0	.0	.9	1.6	.6	.1	.0	.0	56	.4	2.7
4	.0	.0	.1	1.7	2.2	.2	.1	.1	.0	76	.6	3.6
3	.0	.0	.6	3.2	2.0	.2	.0	.0	.0	107	.5	5.4
2	.0	.1	1.7	5.0	1.9	.3	.0	.0	.0	165	1.0	8.0
1	.0	.2	2.8	6.7	2.0	.1	.0	.0	.0	213	1.2	10.5
0	.0	.2	6.4	6.8	1.5	.0	.0	.0	.0	270	.8	14.1
-1	.0	1.1	8.5	3.3	.1	.0	.0	.0	.0	236	.3	12.7
-2	.0	1.6	9.5	2.3	.3	.1	.0	.0	.0	249	.2	13.5
-3	.0	2.4	4.4	.7	.2	.0	.0	.0	.0	137	.2	7.3
-4	.1	2.4	2.1	.8	.1	.0	.0	.0	.0	101	.2	5.4
-5	.1	1.5	1.0	.6	.1	.0	.0	.0	.0	59	.1	3.1
-6	.1	.8	.4	.3	.0	.0	.0	.0	.0	30	.1	1.6
-7/-8	.0	.6	.2	.2	.0	.0	.0	.0	.0	18	.0	1.0
-9/-10	.0	.1	.4	.1	.1	.0	.0	.0	.0	11	.0	.6
-11/-13	.0	.2	.0	.1	.0	.0	.0	.0	.0	4	.0	.2
-14/-16	.0	.0	.1	.0	.0	.0	.0	.0	.0	1	.0	.1
TOTAL	5	201	691	596	251	55	10	4	1	1814	109	1705
PCT	.3	11.1	38.1	32.9	13.8	3.0	.6	.2	.1	100.0	6.0	94.0

PERIOD: (OVER-ALL) 1963-1969

TABLE 18

PCT FREQ OF WIND SPEED (KTS) AND DIRECTION VERSUS SEA HEIGHTS (FT)

HGT	1-3	4-10	11-21	22-33	34-47	48+	PCT	1-3	4-10	11-21	22-33	34-47	48+	PCT
<1	.2	1.3	.0	.0	.0	.0	1.5	.0	1.1	.0	.0	.0	.0	1.1
1-2	.2	.9	.2	.0	.0	.0	1.2	.3	3.2	.8	.0	.0	.0	4.2
3-4	.2	.4	.5	.2	.0	.0	1.2	.2	.9	1.9	.1	.0	.0	3.1
5-6	.0	.0	.0	.0	.0	.0	.0	.0	.1	2.0	.5	.0	.0	2.5
7	.0	.0	.0	.0	.0	.0	.0	.0	.0	.6	.0	.0	.0	.6
8-9	.0	.0	.0	.2	.0	.0	.2	.0	.0	.4	.5	.0	.0	.9
10-11	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
12	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
13-16	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
17-19	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
20-22	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
23-25	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
26-32	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
33-40	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
41-48	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
49-60	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
61-70	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
71-86	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
87+	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
TOT PCT	.6	2.5	.7	.3	.0	.0	4.1	.5	5.2	5.7	1.0	.0	.0	12.4

HGT	1-3	4-10	11-21	22-33	34-47	48+	PCT	1-3	4-10	11-21	22-33	34-47	48+	PCT
<1	.2	2.0	.0	.0	.0	.0	2.2	.2	.7	.0	.0	.0	.0	.9
1-2	.0	2.1	1.1	.0	.0	.0	3.2	.0	2.6	.2	.0	.0	.0	2.8
3-4	.0	1.5	2.0	.3	.0	.0	3.9	.0	1.5	2.4	.1	.0	.0	4.0
5-6	.0	.2	2.4	.2	.0	.0	2.7	.0	.0	.9	.2	.0	.0	1.1
7	.0	.0	1.0	.4	.0	.0	1.4	.0	.0	.5	.1	.0	.0	.5
8-9	.0	.0	.0	.0	.0	.0	.0	.0	.0	.1	.4	.0	.0	.5
10-11	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
12	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
13-16	.0	.0	.0	.2	.0	.0	.2	.0	.0	.0	.0	.0	.0	.0
17-19	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
20-22	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
23-25	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
26-32	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
33-40	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
41-48	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
49-60	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
61-70	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
71-86	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
87+	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
TOT PCT	.2	5.8	6.6	1.0	.0	.0	13.6	.2	4.8	4.0	.7	.0	.0	9.7



PERIOD: (OVER-ALL) 1963-1969

DECEMBER

AREA 0009 MELBOURNE SE  
38.45 146.9E

TABLE 18 (CONT)

PCT FREQ OF WIND SPEED (KTS) AND DIRECTION VERSUS SEA HEIGHTS (FT)

HGT	S							PCT	SW							PCT
	1-3	4-10	11-21	22-33	34-47	48+			1-3	4-10	11-21	22-33	34-47	48+		
<1	.6	1.3	.0	.0	.0	.0		1.8	.3	.8	.2	.0	.0	.0		1.2
1-2	.2	2.1	.4	.0	.0	.0		2.7	.2	2.2	1.2	.0	.0	.0		3.6
3-4	.0	1.2	2.2	.2	.0	.0		3.5	.2	2.5	3.8	.3	.0	.0		6.8
5-6	.0	.0	1.7	.0	.2	.0		1.9	.0	.5	4.0	1.0	.6	.0		6.0
7	.0	.0	.2	.2	.0	.0		.4	.0	.0	1.5	.5	.0	.0		2.4
8-9	.0	.0	.4	.2	.2	.0		.7	.0	.0	.6	.1	.1	.2		.9
10-11	.0	.0	.0	.2	.0	.0		.2	.0	.0	.0	.4	.0	.0		.4
12	.0	.0	.0	.0	.0	.0		.0	.0	.0	.0	.3	.0	.0		.3
13-16	.0	.0	.0	.0	.0	.0		.0	.0	.0	.0	.2	.0	.0		.2
17-19	.0	.0	.0	.0	.0	.0		.0	.0	.0	.0	.0	.0	.0		.0
20-22	.0	.0	.0	.0	.0	.0		.0	.0	.0	.0	.0	.0	.0		.0
23-25	.0	.0	.0	.0	.0	.0		.0	.0	.0	.0	.0	.0	.0		.0
26-32	.0	.0	.0	.0	.0	.0		.0	.0	.0	.0	.0	.0	.0		.0
33-40	.0	.0	.0	.0	.0	.0		.0	.0	.0	.0	.0	.0	.0		.0
41-48	.0	.0	.0	.0	.0	.0		.0	.0	.0	.0	.0	.0	.0		.0
49-60	.0	.0	.0	.0	.0	.0		.0	.0	.0	.0	.0	.0	.0		.0
61-70	.0	.0	.0	.0	.0	.0		.0	.0	.0	.0	.0	.0	.0		.0
71-86	.0	.0	.0	.0	.0	.0		.0	.0	.0	.0	.0	.0	.0		.0
87+	.0	.0	.0	.0	.0	.0		.0	.0	.0	.0	.0	.0	.0		.0
TOT PCT	.8	4.5	4.8	.8	.4	.0		11.2	.7	6.4	11.3	2.6	.7	.2		21.8

HGT	W							PCT	NW							PCT	TOTAL PCT
	1-3	4-10	11-21	22-33	34-47	48+			1-3	4-10	11-21	22-33	34-47	48+			
<1	.6	.4	.0	.0	.0	.0		1.0	.2	.7	.0	.0	.0	.0		.9	
1-2	.0	2.3	1.8	.0	.0	.0		4.2	.0	.7	.4	.0	.0	.0		1.1	
3-4	.2	2.8	2.7	.3	.0	.0		6.0	.0	.4	.7	.1	.0	.0		1.2	
5-6	.0	.4	4.0	1.0	.0	.0		5.3	.0	.0	.3	.0	.0	.0		.3	
7	.0	.2	1.5	1.2	.0	.0		2.9	.0	.0	.2	.0	.0	.0		.2	
8-9	.0	.0	.2	1.5	.0	.0		1.7	.0	.0	.0	.1	.0	.0		.1	
10-11	.0	.0	.0	.4	.0	.0		.4	.0	.0	.0	.0	.0	.0		.0	
12	.0	.0	.0	.2	.2	.0		.3	.0	.0	.0	.0	.1	.0		.1	
13-16	.0	.0	.0	.0	.0	.0		.0	.0	.0	.0	.0	.0	.0		.0	
17-19	.0	.0	.0	.0	.0	.0		.0	.0	.0	.0	.0	.0	.0		.0	
20-22	.0	.0	.0	.0	.0	.0		.0	.0	.0	.0	.0	.0	.0		.0	
23-25	.0	.0	.0	.0	.0	.0		.0	.0	.0	.0	.0	.0	.0		.0	
26-32	.0	.0	.0	.0	.0	.0		.0	.0	.0	.0	.0	.0	.0		.0	
33-40	.0	.0	.0	.0	.0	.0		.0	.0	.0	.0	.0	.0	.0		.0	
41-48	.0	.0	.0	.0	.0	.0		.0	.0	.0	.0	.0	.0	.0		.0	
49-60	.0	.0	.0	.0	.0	.0		.0	.0	.0	.0	.0	.0	.0		.0	
61-70	.0	.0	.0	.0	.0	.0		.0	.0	.0	.0	.0	.0	.0		.0	
71-86	.0	.0	.0	.0	.0	.0		.0	.0	.0	.0	.0	.0	.0		.0	
87+	.0	.0	.0	.0	.0	.0		.0	.0	.0	.0	.0	.0	.0		.0	
TOT PCT	.8	6.1	10.3	4.6	.2	.0		21.9	.2	1.7	1.5	.2	.1	.0		3.7	98.4

WIND SPEED (KTS) VS SEA HEIGHT (FT)

HGT	0-3	4-10	11-21	22-33	34-47	48+	PCT	TOT DBS
<1	4.0	8.0	.2	.0	.0	.0	12.2	
1-2	1.4	16.2	6.0	.0	.0	.0	23.6	
3-4	.8	11.2	16.0	1.4	.0	.0	29.5	
5-6	.0	1.0	15.0	2.8	.8	.0	19.6	
7	.0	.6	5.4	2.2	.0	.0	8.2	
8-9	.0	.0	1.6	2.8	.2	.0	4.6	
10-11	.0	.0	.0	1.0	.0	.0	1.0	
12	.0	.0	.0	.4	.2	.0	.6	
13-16	.0	.0	.0	.4	.0	.0	.4	
17-19	.0	.0	.0	.0	.0	.0	.0	
20-22	.0	.0	.0	.0	.0	.0	.0	
23-25	.0	.0	.0	.0	.0	.0	.0	
26-32	.0	.0	.0	.0	.0	.0	.0	
33-40	.0	.0	.0	.0	.0	.0	.0	
41-48	.0	.0	.0	.0	.0	.0	.0	
49-60	.0	.0	.0	.0	.0	.0	.0	
61-70	.0	.0	.0	.0	.0	.0	.0	
71-86	.0	.0	.0	.0	.0	.0	.0	
87+	.0	.0	.0	.0	.0	.0	.0	
TOT PCT	6.2	37.1	44.3	11.0	1.2	.2	100.0	499

PERIOD: (OVER-ALL) 1949-1969

TABLE 19

PERCENT FREQUENCY OF WAVE HEIGHT (FT) VS WAVE PERIOD (SECONDS)

PERIOD (SEC)	<1	1-2	3-4	5-6	7	8-9	10-11	12	13-16	17-19	20-22	23-25	26-32	33-40	41-48	49-60	61-70	71-86	87+	TOTAL	MEAN HGT
<6	2.5	8.7	13.6	7.1	3.2	1.9	.6	.1	.1	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	257
6-7	.0	1.5	7.2	11.4	7.4	2.8	1.8	.4	.4	.4	.0	.0	.1	.0	.0	.0	.0	.0	.0	.0	227
8-9	.0	.4	1.3	3.5	3.7	2.7	1.0	.9	.3	.0	.0	.1	.0	.0	.0	.0	.0	.0	.0	.0	95
10-11	.0	.1	.3	.1	.9	1.3	.9	.4	.1	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	29
12-13	.0	.0	.1	.3	.0	.0	.7	.0	.1	.0	.3	.0	.0	.0	.0	.0	.0	.0	.0	.0	11
>13	.0	.0	.0	.6	.0	.1	.0	.3	.1	.1	.0	.0	.1	.0	.0	.0	.0	.0	.0	.0	13
INDET	2.2	2.2	.9	.1	.7	.3	.3	.1	.0	.1	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	48
TOTAL	32	88	159	157	108	62	36	16	9	5	2	1	2	0	0	0	0	0	0	0	677
PCT	4.7	13.0	23.5	23.2	16.0	9.2	5.3	2.4	1.3	.7	.3	.1	.3	.0	.0	.0	.0	.0	.0	.0	100.0

PERIOD: (PRIMARY) 1891-1972  
(OVER-ALL) 1854-1972

# ANNUAL

AREA 0009 MELBOURNE SE  
38.55 146.9E

TABLE 1

## PERCENT FREQUENCY OF WEATHER OCCURRENCE BY WIND DIRECTION

PRECIPITATION TYPE										OTHER WEATHER PHENOMENA						
WIND DIR	RAIN	RAIN SHWR	DRZL	FRZG PCPN	SNOW	OTHER FRZN PCPN	HAIL	PCPN AT OB TIME	PCPN PAST HOUR	THDR LTNG	FOG WD PCPN	FOG WD PCPN PAST HR	SMOKE HAZE	SPRAY BLWG DUST	NO SIG WE	
N	3.3	2.2	1.2	.0	.0	.0	.1	6.8	.5	1.7	7.3	.1	2.3	.0	81.7	
NE	4.8	2.0	1.6	.0	.0	.0	*	8.4	1.0	1.9	6.5	*	2.4	.0	80.3	
E	4.3	2.1	1.9	.0	.0	.0	.2	8.4	1.0	1.1	5.9	.2	1.7	.0	81.8	
SE	5.1	5.1	2.2	.0	.0	.0	*	12.4	1.8	.6	2.7	.0	1.1	.0	81.6	
S	4.5	6.0	1.2	.0	.0	.0	.3	11.9	1.6	1.1	3.2	.0	.8	*	81.8	
SW	3.7	8.0	1.4	.0	.0	.0	.3	13.2	1.9	.9	2.2	*	.8	.0	81.2	
W	3.9	8.7	1.3	.0	.0	.0	.3	14.2	2.5	1.3	2.3	.0	.7	.0	79.5	
NW	4.0	6.1	1.1	.0	.0	.0	.2	11.4	1.3	1.6	3.2	.1	1.1	.0	81.8	
VAR	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
CALM	.7	.4	.9	.0	.0	.0	.0	2.0	.9	.8	9.7	.3	4.0	.0	82.3	
TOT PCT	4.0	5.6	1.4	.0	.0	.0	.2	11.1	1.6	1.3	3.9	*	1.3	*	81.2	
TOT OBS: 25989																

TABLE 2

## PERCENT FREQUENCY OF WEATHER OCCURRENCE BY HOUR

HOUR (GMT)	PRECIPITATION TYPE							OTHER WEATHER PHENOMENA							
	RAIN	RAIN SHWR	DRZL	FRZG PCPN	SNOW	OTHER FRZN PCPN	HAIL	PCPN AT OB TIME	PCPN PAST HOUR	THDR LTNG	FGG WD PCPN	FGG WD PCPN PAST HR	SMOKE HAZE	SPRAY BLWG DUST	NO SIG WEA
00603	3.7	4.6	1.2	.0	.0	.0	.3	9.8	1.8	.2	3.9	.1	1.7	.0	82.6
06609	3.9	5.6	1.1	.0	.0	.0	.1	10.7	1.4	1.1	4.6	.1	1.8	.0	80.8
12615	3.8	5.2	1.6	.0	.0	.0	.1	10.7	1.8	2.4	2.9	.0	1.0	.0	81.8
18621	4.4	6.5	1.8	.0	.0	.0	.2	12.8	1.3	1.6	4.4	.0	.8	*	79.4
TOT PCT	4.0	5.5	1.4	.0	.0	.0	.2	11.1	1.5	1.3	4.0	*	1.3	*	81.0
TOT OBS: 27096															

TABLE 3

## PERCENTAGE FREQUENCY OF WIND DIRECTION BY SPEED AND BY HOUR

WIND DIR	WIND SPEED (KNOTS)							TOTAL OBS	PCT FREQ	MEAN SPD	HOUR (GMT)							
	0-3	4-10	11-21	22-33	34-47	48+					00	03	06	09	12	15	18	21
N	1.0	4.9	2.9	.7	.1	*		9.5	10.4		9.5	10.8	6.3	8.4	7.1	10.5	10.2	12.5
NE	1.0	5.9	3.9	.8	.1	*		11.6	10.7		12.1	11.7	11.0	11.7	11.5	11.7	12.0	
E	.8	4.9	3.7	.8	.1	*		10.3	11.1		8.4	9.1	11.9	11.4	10.9	11.2	9.9	8.9
SE	.7	3.5	2.0	.5	.1	*		6.8	10.9		5.8	6.9	8.0	8.1	6.0	6.6	6.1	6.1
S	.8	4.0	2.7	.8	.2	*		8.5	12.0		5.7	8.0	10.0	10.6	8.1	8.4	8.1	7.2
SW	.9	6.5	8.6	4.0	.9	.1		21.0	15.8		19.3	20.3	23.6	22.9	22.1	20.8	19.4	19.5
W	.7	5.4	8.0	4.8	1.2	.1		20.0	17.0		25.9	20.5	20.0	17.0	22.7	18.7	19.8	19.3
NW	.6	4.2	3.5	1.5	.3	*		10.2	13.0		12.0	10.7	7.6	7.9	8.6	9.8	12.4	12.9
VAR	.0	.0	.0	.0	.0	.0		.0	.0		.0	.0	.0	.0	.0	.0	.0	.0
CALM	2.0							2.0	.0		1.3	2.0	1.7	2.0	3.0	2.3	2.5	1.5
TOT OBS							39758		13.3		2836	6551	6666	5130	2628	4779	6320	4848
TOT PCT	8.3	39.4	35.3	13.6	2.9	.3		100.0			100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0

TABLE 3A

WIND DIR	WIND SPEED (KNOTS)					41+	TOTAL OBS	PCT FREQ	MEAN SPD	HOUR (GMT)			
	0-6	7-16	17-27	28-40						00	06	12	18
N	3.2	4.5	1.5	.3	*		9.5	10.4		10.4	7.2	9.3	11.3
NE	3.4	6.0	1.9	.3	*		11.6	10.7		11.8	11.3	11.5	11.8
E	2.8	5.2	1.9	.3	*		10.3	11.1		8.8	11.7	11.1	9.5
SE	2.2	3.4	1.0	.2	.1		6.8	10.9		6.6	8.1	6.4	6.1
S	2.5	3.9	1.5	.4	.1		8.5	12.0		7.3	10.2	8.3	7.7
SW	3.3	8.6	6.6	2.2	.3		21.0	15.8		20.0	23.2	21.3	19.4
W	2.7	7.6	6.6	2.7	.5		20.0	17.0		22.2	18.7	20.2	19.6
NW	2.4	4.5	2.4	.8	.1		10.2	13.0		11.1	7.7	9.4	12.6
VAR	.0	.0	.0	.0	.0		.0	.0		.0	.0	.0	.0
CALM	2.0						2.0	.0		1.8	1.8	2.6	2.1
TOT OBS						39758		13.3		9387	11796	7607	11168
TOT PCT	24.5	43.6	23.3	7.2	1.2		100.0			100.0	100.0	100.0	100.0

PERIOD: (PRIMARY) 1891-1972  
(OVER-ALL) 1854-1972

ANNUAL

AREA 0009 MELBOURNE SE  
38.55 146.9F

TABLE 4

PERCENTAGE FREQUENCY OF WIND SPEED BY HOUR (GMT)

HOUR	CALM	1-3	4-10	WIND SPEED (KNOTS)				48+	MEAN	PCT FREQ	TOTAL OBS
				11-21	22-33	34-47					
00003	1.8	6.9	38.3	35.9	13.7	3.1	.3	13.4	100.0		9387
06009	1.8	6.5	38.1	35.6	14.4	3.2	.4	13.6	100.0		11796
12015	2.6	5.9	39.8	35.7	13.0	2.7	.3	13.1	100.0		7407
18021	2.1	6.6	41.3	34.2	13.0	2.5	.3	12.9	100.0		11168
TOT								13.3			39758
PCT	2.0	6.5	39.4	35.3	13.6	2.9	.3		100.0		

TABLE 5

PCT FREQ OF TOTAL CLOUD AMOUNT (EIGHTHS)  
BY WIND DIRECTION

WIND DIR	0-2	3-4	5-7	8 & OBS	TOTAL OBS	MEAN CLOUD COVER
N	2.7	1.2	2.4	1.6		4.2
NE	5.1	1.4	3.1	2.1		3.9
E	4.3	1.2	2.6	2.0		4.0
SE	1.7	.9	1.8	1.9		5.0
S	1.8	1.5	2.5	1.7		4.9
SW	4.6	4.3	8.1	4.4		4.9
W	5.0	4.2	9.3	4.4		4.9
NW	2.7	1.5	3.7	2.2		4.7
VAR	.0	.0	.0	.0		.0
CALM	1.1	.3	.3	.4		3.1
TOT OBS					8961	4.6
TOT PCT	28.9	16.5	33.9	20.7	100.0	

TABLE 6

PERCENTAGE FREQUENCY OF CEILING HEIGHTS (FT, NH >4/8)  
AND OCCURRENCE OF NH <5/8 BY WIND DIRECTION

	000	150	300	600	1000	2000	3500	5000	6500	8000+	NH <5/8 ANY HGT	TOTAL OBS
	149	299	599	999	1999	3499	4999	6499	7999			
N	*	.0	.1	.4	.9	.4	.3	.1	.1	.3	5.4	
NE	.1	.0	.1	.4	1.2	.8	.4	.1	.1	.2	8.2	
E	.1	.1	.1	.8	1.1	.8	.2	.1	.1	.2	6.7	
SE	*	*	.2	.6	1.0	.6	.4	.1	.0	*	3.3	
S	.1	.0	.2	.6	1.4	.7	.3	.1	*	*	4.1	
SW	.1	*	.3	1.9	4.5	1.8	.8	.2	.1	.1	11.5	
W	.1	*	.3	2.4	4.7	1.8	.9	.3	.1	.1	12.3	
NW	*	.0	.2	1.0	1.5	.8	.4	.2	.1	.1	5.8	
VAR	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
CALM	*	*	*	*	.3	.1	*	*	*	*	1.5	
TOT OBS											8961	
TOT PCT	.4	.2	1.3	8.2	16.7	7.8	3.7	1.2	.4	1.0	58.9	100.0

TABLE 7

CUMULATIVE PCT FREQ OF SIMULTANEOUS OCCURRENCE  
OF CEILING HEIGHT (NH >4/8) AND VSBY (NM)

CEILING (FEET)	VSBY (NM)							
	>10	>5	>2	>1	>1/2	>1/4	>3000	>0
>6500	1.3	1.5	1.5	1.5	1.5	1.5	1.5	1.5
>5000	2.1	2.6	2.7	2.7	2.7	2.7	2.7	2.7
>3500	5.2	6.2	6.4	6.4	6.4	6.4	6.5	6.5
>2000	11.8	13.9	14.2	14.2	14.2	14.2	14.2	14.2
>1000	24.8	29.8	30.6	30.7	30.7	30.7	30.7	30.7
>600	30.1	37.3	38.7	38.9	38.9	38.9	38.9	38.9
>300	30.5	38.4	40.0	40.2	40.2	40.2	40.2	40.2
>150	30.6	38.5	40.2	40.4	40.4	40.4	40.4	40.4
>0	30.7	38.7	40.4	40.6	40.6	40.7	40.8	40.8

TOTAL NUMBER OF OBS: 9211

PCT FREQ NH <5/8: 59.2

TABLE 7A

PERCENTAGE FREQ OF LOW CLOUDS (EIGHTHS)

	0	1	2	3	4	5	6	7	8	OBS	TOTAL OBS
	12.6	19.4	12.1	10.1	7.8	8.0	9.4	9.2	15.2	.2	10682

PERIOD: (PRIMARY) 1891-1972  
(OVER-ALL) 1854-1972

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38.55 146.9E

TABLE 8

PERCENT FREQ OF WIND DIRECTION VS OCCURRENCE OR NON-OCCURRENCE OF  
PRECIPITATION WITH VARYING VALUES OF VISIBILITY

VSBY (NM)		N	NE	E	SE	S	SW	W	NW	VAR	CALM	PCT	TOTAL OBS
<1/2	PCP	.0	.0	*	*	*	*	*	.0	.0	.0	.1	
	NO PCP	.1	.1	.1	*	*	*	*	*	.0	*	.5	
	TOT %	.1	.1	.1	.1	*	.1	*	*	.0	*	.6	
1/2<1	PCP	*	*	*	*	*	.1	.1	*	.0	.0	.4	
	NO PCP	.3	.5	.5	.1	.2	.2	.3	.1	.0	*	2.4	
	TOT %	.4	.6	.5	.2	.2	.3	.4	.2	.0	*	2.7	
1<2	PCP	*	*	*	*	*	.1	*	*	.0	.0	.2	
	NO PCP	.1	.1	.1	*	*	.1	.1	*	.0	*	.6	
	TOT %	.1	.1	.1	.1	.1	.2	.1	*	.0	*	.8	
2<5	PCP	*	.1	.1	.1	.1	.2	.2	.1	.0	*	.8	
	NO PCP	.1	.2	.1	.1	.1	.2	.2	.1	.0	*	1.0	
	TOT %	.1	.2	.2	.2	.2	.3	.4	.1	.0	*	1.8	
5<10	PCP	.5	.6	.4	.5	.6	1.8	2.3	.9	.0	*	7.6	
	NO PCP	3.4	3.9	3.8	2.5	3.1	7.7	7.8	3.7	.0	.3	36.1	
	TOT %	3.9	4.4	4.2	3.0	3.8	9.5	10.1	4.6	.0	.3	43.7	
10+	PCP	.1	.2	.1	.1	.2	.6	.6	.2	.0	*	2.1	
	NO PCP	4.7	5.7	4.7	3.1	4.0	10.2	10.0	5.1	.0	.9	48.3	
	TOT %	4.8	5.9	4.8	3.2	4.1	10.8	10.5	5.4	.0	.9	50.4	
TOT OBS													25982
TOT PCT													9.4 11.3 10.1 6.6 8.4 21.2 21.6 10.3 .0 1.3 100.0

TABLE 9

PERCENT FREQ OF WIND DIRECTION VS WIND SPEED  
WITH VARYING VALUES OF VISIBILITY

VSBY (NM)	SPD KTS	N	NE	E	SE	S	SW	W	NW	VAR	CALM	PCT	TOTAL OBS
<1/2	0-3	*	*	*	*	*	*	*	*	.0		.2	
	4-10	.1	.1	.1	*	*	*	*	*	.0	.1	.3	
	11-21	*	*	*	*	*	*	*	*	.0	*	.1	
	22+	.0	.0	.0	.0	.0	*	*	.0	.0	*	*	
	TOT %	.1	.1	.1	.1	*	.1	*	*	.0	.1	.6	
1/2<1	0-3	*	.1	*	*	*	*	*	*	.0	*	.3	
	4-10	.1	.3	.2	*	.1	.1	.1	.1	.0		1.0	
	11-21	.1	.1	.1	*	.1	.1	.1	*	.0	*	.7	
	22+	*	.1	.1	*	*	.1	.1	*	.0	*	.4	
	TOT %	.3	.5	.5	.1	.2	.3	.4	.2	.0	*	2.5	
1<2	0-3	*	*	*	*	*	*	*	*	.0	*	.1	
	4-10	*	.1	*	*	*	.1	*	*	.0	*	.4	
	11-21	*	*	.1	*	*	.1	.1	*	.0	*	.3	
	22+	*	*	*	*	*	.1	*	*	.0	*	.2	
	TOT %	.1	.1	.1	.1	.1	.2	.1	.1	.0	*	1.0	
2<5	0-3	*	*	*	*	*	*	*	*	.0	*	.2	
	4-10	.1	.1	.1	.1	*	.1	.1	.1	.0	*	.7	
	11-21	*	.1	.1	.1	.1	.2	.2	.1	.0	*	.8	
	22+	*	*	.1	.1	.1	.2	.2	*	.0	*	.7	
	TOT %	.2	.3	.3	.2	.2	.5	.5	.2	.0	*	2.4	
5<10	0-3	.3	.3	.3	.2	.3	.4	.3	.3	.0	.3	2.9	
	4-10	1.7	2.0	1.7	1.3	1.4	2.5	2.1	1.5	.0		14.3	
	11-21	1.2	1.4	1.5	.9	1.1	3.4	3.4	1.5	.0		14.4	
	22+	.4	.4	.4	.3	.6	2.5	3.4	.9	.0		8.9	
	TOT %	3.6	4.1	3.9	2.8	3.5	8.8	9.2	4.2	.0	.3	40.3	
10+	0-3	.5	.5	.3	.4	.4	.5	.4	.4	.0	1.1	4.5	
	4-10	2.8	3.4	2.7	1.9	2.2	3.7	3.0	2.5	.0		22.2	
	11-21	1.4	2.1	1.9	1.0	1.4	5.3	4.9	2.0	.0		20.1	
	22+	.3	.2	.2	.2	.3	2.1	2.4	.8	.0		6.5	
	TOT %	5.0	6.2	5.1	3.4	4.3	11.6	10.8	5.7	.0	1.1	53.3	
TOT OBS													29520
TOT PCT													9.2 11.3 10.0 6.7 8.3 21.4 21.0 10.4 .0 1.6 100.0

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(OVER-ALL) 1854-1972

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38.55 146.9E

TABLE 10

PERCENT FREQUENCY OF CEILING HEIGHTS (FEET, NH >4/8) AND  
OCCURRENCE OF NH <5/8 BY HOUR

HOUR (GMT)	000 149	150 299	300 599	600 999	1000 1999	2000 3499	3500 4999	5000 6499	6500 7999	8000+	TOTAL	NH <5/8 ANY HGT	TOTAL OBS
00003	.3	.2	1.4	8.0	16.8	8.5	3.9	1.2	.6	1.2	42.2	57.8	2826
06009	.2	.1	1.4	7.9	14.2	7.0	3.1	1.0	.4	.7	36.0	64.0	2600
12015	.5	.2	1.2	6.2	14.1	6.4	3.2	.9	.2	.9	33.7	66.3	2379
18021	.5	.1	.8	8.3	15.9	6.7	3.7	1.3	.4	1.1	39.0	61.0	2149
TOT													9954
PCT	.4	.2	1.2	7.6	15.3	7.2	3.5	1.1	.4	1.0	37.8	62.2	100.0

TABLE 11

PERCENT FREQUENCY VSBY (NM) BY HOUR

HOUR (GMT)	<1/2	1/2<1	1<2	2<5	5<10	10+	TOTAL OBS
00003	.7	2.4	.9	2.2	33.6	60.3	6655
06009	.7	2.9	1.1	2.7	45.6	47.1	9216
12015	.5	1.6	.7	2.1	36.8	58.2	6071
18021	.7	3.0	1.0	2.2	44.2	48.9	8690
TOT							30632
PCT	.7	2.6	1.0	2.3	40.8	52.7	100.0

TABLE 12

CUMULATIVE PCT FREQ OF RANGES OF VSBY (NM) AND/OR  
CEILING HGT (FEET, NH >4/8) BY HOUR

HOUR (GMT)	<150 <50YD	<600 <1	<1000 <5	1000+ AND 5+	NH <5/8 AND 5+	TOTAL OBS
00003	.3	2.3	12.2	33.1	54.7	2661
06009	.2	2.0	12.2	27.8	59.9	2363
12015	.5	2.0	9.6	26.6	63.8	2232
18021	.6	1.7	11.9	31.1	57.0	1955
TOT						9211
PCT	.4	2.0	11.5	29.8	58.8	100.0

TABLE 13

PERCENT FREQUENCY OF RELATIVE HUMIDITY BY TEMP

TEMP F	0-29	30-39	40-49	50-59	60-69	70-79	80-89	90-100	TOTAL OBS	PCT FREQ
80/84	.0	*	*	*	*	*	*	.0	.1	
75/79	*	*	.1	.1	.2	*	*	*	.6	
70/74	.0	*	.2	.5	.8	.7	.3	*	2.5	
65/69	.0	.0	.1	.4	1.4	3.0	3.8	2.4	11.1	
60/64	.0	*	.2	1.0	5.0	8.4	8.3	4.1	27.0	
55/59	.0	*	.1	1.1	4.1	12.7	11.2	4.6	35.8	
50/54	.0	.0	*	.5	3.6	5.7	7.3	3.3	20.4	
45/49	.0	.0	*	.1	.2	.5	.8	.7	2.2	
40/44	.0	.0	.0	.0	.0	*	*	.1	.2	
35/39	.0	.0	.0	.0	.0	*	*	*	*	
TOTAL									14550	100.0
PCT	*	.1	.6	3.5	17.0	31.3	32.1	15.6		

TABLE 14

PERCENT FREQUENCY OF WIND DIRECTION BY TEMP

	N	NE	E	SE	S	SW	W	NW	VAR	CALM
80/84	*	*	*	.0	.0	.0	.0	*	.0	.0
75/79	.1	.1	.1	*	.1	*	*	*	.0	*
70/74	.5	.7	.4	.1	.2	.2	.1	.1	.0	.1
65/69	1.2	2.6	1.8	1.0	.8	1.5	1.1	.7	.0	.3
60/64	2.2	3.8	3.5	2.1	2.4	5.6	5.0	1.9	.0	.5
55/59	3.0	3.1	2.7	2.2	2.8	8.4	8.8	4.3	.0	.5
50/54	1.6	1.1	.9	1.0	1.8	5.2	5.6	2.9	.0	.3
45/49	.3	.1	*	.1	.2	.5	.6	.3	.0	*
40/44	*	*	*	*	*	*	*	*	.0	.0
35/39	*	.0	.0	*	.0	.0	.0	.0	.0	.0
TOTAL	9.0	11.6	9.5	6.5	8.3	21.6	21.3	10.4	.0	1.8

TABLE 15

MEANS, EXTREMES AND PERCENTILES OF TEMP (DEG F) BY HOUR

HOUR (GMT)	MAX	99%	95%	50%	5%	1%	MIN	MEAN	TOTAL OBS
00003	84	71	67	60	54	51	44	60.1	9256
06009	84	71	66	59	54	51	39	59.8	11810
12015	80	67	64	58	53	50	43	58.1	7546
18021	81	66	63	57	52	49	37	57.7	11374
TOT	84	69	65	59	53	50	37	59.0	39986

TABLE 16

PERCENT FREQUENCY OF RELATIVE HUMIDITY BY HOUR

HOUR (GMT)	0-29	30-39	40-49	50-59	60-69	70-79	80-89	90-100	MEAN	TOTAL OBS
00003	.0	5.7	19.3	32.8	29.4	12.8	77	3722		
06009	.0	5.4	20.4	31.4	30.5	12.3	77	4260		
12015	.0	2.7	14.1	31.8	34.5	16.9	80	3144		
18021	*	2.3	12.7	28.8	34.7	21.4	81	3894		
TOT	1	624	2523	4683	4826	2363	79	15020		



PERIOD: (PRIMARY) 1891-1972  
(OVER-ALL) 1854-1972

# ANNUAL

AREA 0009 MELBOURNE SE  
38.55 146.9E

TABLE 17

PCT FREQ OF AIR TEMPERATURE (DEG F) AND THE OCCURRENCE OF FOG (WITHOUT PRECIPITATION)  
VS AIR-SEA TEMPERATURE DIFFERENCE (DEG F)

AIR-SEA TMP DIF	37 40	41 44	45 48	49 52	53 56	57 60	61 64	65 68	69 72	73 76	77 80	81 84	TOT FOG	W FOG	NO FOG
20/22	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	*	.0	3	.0	*
17/19	.0	.0	.0	.0	.0	.0	.0	*	*	*	*	*	10	*	*
14/16	.0	.0	.0	.0	.0	.0	*	*	*	*	*	*	28	.0	.1
11/13	.0	.0	.0	.0	.0	*	.1	.1	.1	.1	*	*	92	.0	.4
9/10	.0	.0	.0	.0	*	*	.1	.2	.2	.2	*	*	157	.1	.6
7/8	.0	.0	.0	.0	*	.1	.3	.4	.4	.1	*	.0	335	.1	1.4
6	.0	.0	.0	.0	*	.1	.3	.3	.3	.1	*	*	275	.1	1.1
5	.0	.0	.0	*	.1	.4	.6	.6	.3	*	*	.0	474	.1	1.9
4	.0	.0	*	*	.2	1.0	1.0	.9	.4	.1	*	.0	819	.2	3.3
3	.0	.0	.0	*	.4	1.4	1.0	1.2	.3	.1	*	.0	1001	.3	4.1
2	.0	.0	*	.1	1.2	2.5	2.1	1.7	.3	*	*	.0	1892	.6	7.5
1	.0	.0	*	.1	2.1	2.8	2.6	1.5	.2	*	*	.0	2143	.6	8.8
0	.0	.0	*	.5	4.7	4.2	4.0	1.3	.1	*	.0	.0	3369	.7	14.2
-1	.0	.0	*	.8	4.4	3.6	2.7	.7	.1	*	.0	.0	2748	.5	11.8
-2	.0	.0	.1	1.6	4.4	3.9	2.6	.5	*	.0	.0	.0	2974	.4	12.7
-3	.0	.0	.1	1.7	3.1	2.6	1.3	.3	*	.0	.0	.0	2068	.2	8.9
-4	.0	*	.1	1.8	2.6	2.0	.9	.1	*	.0	.0	.0	1735	.2	7.5
-5	.0	*	.2	1.4	1.5	1.3	.5	.1	*	.0	.0	.0	1135	.1	4.9
-6	.0	*	.1	.8	.7	.7	.2	*	*	.0	.0	.0	573	*	2.5
-7/-8	.0	*	.3	.7	.9	.6	.1	*	*	.0	.0	.0	608	*	2.6
-9/-10	.0	*	.1	.3	.3	.2	.1	*	.0	.0	.0	.0	223	*	1.0
-11/-13	.0	*	.1	.1	.1	.1	*	.0	.0	.0	.0	.0	88	*	.4
-14/-16	.0	.0	*	*	*	*	.0	.0	.0	.0	.0	.0	14	.0	.1
TOTAL													22772		
PCT	*	.1	1.1	10.0	26.9	27.4	20.6	10.0	2.9	.8	.2	*	100.0	4.3	95.7

PERIOD: (OVER-ALL) 1963-1972

TABLE 18

PCT FREQ OF WIND SPEED (KTS) AND DIRECTION VERSUS SEA HEIGHTS (FT)

HGT	1-3	4-10	11-21	22-33	34-47	48+	PCT	1-3	4-10	11-21	22-33	34-47	48+	PCT
<1	.4	.8	*	.0	.0	.0	1.2	.4	1.0	*	.0	.0	.0	1.5
1-2	.2	2.3	.5	.0	.0	.0	3.0	.1	3.2	.8	.0	.0	.0	4.2
3-4	*	1.0	1.1	.1	.0	.0	2.3	*	1.2	1.8	.1	.0	.0	3.1
5-6	.0	*	.5	.2	.0	.0	.7	*	.2	1.3	.2	*	.0	1.8
7	*	*	.3	.1	*	.0	.5	*	*	.4	.1	*	.0	.5
8-9	.0	*	.1	.1	*	.0	.2	.0	*	.1	.1	*	.0	.2
10-11	.0	.0	.0	*	.0	.0	*	.0	*	*	*	.0	.0	*
12	.0	.0	*	*	.0	.0	*	.0	*	*	*	.0	.0	.1
13-16	.0	.0	.0	*	.0	.0	*	.0	.0	*	*	.0	.0	*
17-19	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
20-22	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
23-25	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
26-32	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
33-40	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
41-48	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
49-60	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
61-70	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
71-86	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
87+	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
TOT PCT	.6	4.2	2.5	.6	*	.0	7.9	.6	5.8	4.5	.6	*	.0	11.4

HGT	1-3	4-10	11-21	22-33	34-47	48+	PCT	1-3	4-10	11-21	22-33	34-47	48+	PCT
<1	.2	.7	*	.0	.0	.0	1.0	.3	.6	*	.0	.0	.0	.9
1-2	.1	2.2	.6	.0	.0	.0	2.9	.1	1.6	.4	.0	.0	.0	2.0
3-4	*	1.3	1.7	.2	.0	.0	3.1	*	.8	1.1	*	.0	.0	1.9
5-6	.0	.3	1.6	.2	*	.0	2.1	.0	.1	.7	.1	.0	.0	.9
7	.0	*	.3	.2	*	.0	.5	.0	*	.2	.1	*	.0	.4
8-9	.0	*	.1	*	.0	.0	.1	.0	*	*	.1	.0	.0	.1
10-11	.0	*	*	*	.0	.0	.1	.0	.0	.0	*	.0	.0	*
12	.0	.0	*	*	.0	.0	*	.0	.0	.0	*	.0	.0	*
13-16	.0	.0	*	*	.0	.0	.1	.0	.0	.0	*	.0	.0	*
17-19	.0	.0	.0	*	.0	.0	*	.0	.0	.0	*	.0	.0	*
20-22	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	*	.0	.0	*
23-25	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
26-32	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
33-40	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
41-48	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
49-60	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
61-70	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
71-86	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
87+	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
TOT PCT	.4	4.5	4.4	.6	.1	.0	9.9	.4	3.1	2.4	.5	.1	.0	6.4

PERIOD: (OVER-ALL) 1963-1972

## ANNUAL

AREA 0009 MELBOURNE SE  
38.55 146.9E

TABLE 18 (CONT)

PCT FREQ OF WIND SPEED (KTS) AND DIRECTION VERSUS SEA HEIGHTS (FT)

HGT	S							SW							PCT
	1-3	4-10	11-21	22-33	34-47	48+	PCT	1-3	4-10	11-21	22-33	34-47	48+	PCT	
<1	.3	.8	*	.0	.0	.0	1.2	.3	.7	.1	.0	.0	.0	1.0	
1-2	.2	1.4	.3	.0	.0	.0	1.9	.2	2.3	1.3	.0	.0	.0	3.8	
3-4	*	.8	1.2	.1	.0	.0	2.1	.1	1.9	3.8	.5	.0	.0	6.2	
5-6	.0	.2	.9	.1	*	.0	1.2	.0	.4	3.6	1.0	.1	.0	5.0	
7	.0	*	.1	.1	.0	.0	.6	.0	.1	1.3	1.1	.1	.0	2.6	
8-9	.0	.0	.1	.1	.0	.0	.3	.0	.0	.3	.6	.1	*	1.0	
10-11	.0	.0	*	.1	*	.0	.1	.0	.0	.1	.4	.1	*	.6	
12	.0	.0	.0	*	.0	.0	*	.0	.0	*	.3	.1	.0	.4	
13-16	.0	.0	.0	*	.0	.0	*	.0	*	.0	.2	.1	*	.3	
17-19	.0	.0	.0	.0	*	.0	*	.0	.0	.0	*	*	.0	*	
20-22	.0	.0	.0	.0	*	.0	*	.0	.0	.0	*	*	*	.1	
23-25	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
26-32	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
33-40	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
41-48	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
49-60	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
61-70	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
71-86	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
87+	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
TOT PCT	.5	3.2	3.0	.6	.2	.0	7.5	.5	5.4	10.4	4.0	.6	.1	21.0	

HGT	W							NW							TOTAL PCT
	1-3	4-10	11-21	22-33	34-47	48+	PCT	1-3	4-10	11-21	22-33	34-47	48+	PCT	
<1	.3	.7	.1	.0	.0	.0	1.1	.3	.6	.0	.0	.0	.0	.9	
1-2	.1	2.4	1.5	.0	.0	.0	4.0	.1	2.3	.6	.0	.0	.0	2.9	
3-4	*	1.4	3.9	.5	.0	.0	5.9	.0	1.0	1.6	.2	.0	.0	2.8	
5-6	.0	.3	3.8	1.2	.1	.0	5.4	.0	.1	1.0	.3	.1	.0	1.4	
7	.0	*	1.3	1.5	.2	*	3.0	.0	.0	.5	.5	.1	.0	1.0	
8-9	.0	.0	.4	1.0	.2	.0	1.6	.0	.0	.1	.3	*	.0	.4	
10-11	.0	.0	.1	.9	.2	*	1.3	.0	.0	.0	.2	*	.0	.2	
12	.0	.0	*	.2	.2	*	.4	.0	.0	.0	.1	*	.0	.1	
13-16	.0	.0	*	.2	.3	.1	.5	.0	.0	.0	.1	*	.0	.1	
17-19	.0	*	.0	.1	.1	.0	.1	.0	*	.0	.0	*	.0	*	
20-22	.0	.0	.0	*	.1	.0	.1	.0	.0	.0	.0	.0	.0	.0	
23-25	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
26-32	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
33-40	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
41-48	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
49-60	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
61-70	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
71-86	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
87+	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
TOT PCT	.5	4.8	11.1	5.7	1.3	.1	23.5	.4	4.0	3.7	1.6	.3	.0	9.8	97.6

WIND SPEED (KTS) VS SEA HEIGHT (FT)

HGT	0-3	4-10	11-21	22-33	34-47	48+	PCT	TOT OBS
<1	6.0	6.0	.3	.0	.0	.0	12.2	
1-2	1.2	17.4	6.0	.0	.0	.0	24.5	
3-4	.2	9.3	15.9	1.6	.0	.0	27.0	
5-6	*	1.6	13.1	3.3	.0	.0	18.3	
7	*	.2	4.6	3.7	.5	*	9.0	
8-9	.0	*	1.1	2.3	.4	*	3.9	
10-11	.0	*	.3	1.5	.4	*	2.2	
12	.0	*	.1	.7	.3	*	1.1	
13-16	.0	*	*	.6	.4	.1	1.1	
17-19	.0	*	.0	.1	.1	.0	.3	
20-22	.0	.0	.0	.1	.1	*	.2	
23-25	.0	.0	.0	.0	.0	.0	.0	
26-32	.0	.0	.0	.0	.0	.0	.0	
33-40	.0	.0	.0	.0	.0	.0	.0	
41-48	.0	.0	.0	.0	.0	.0	.0	
49-60	.0	.0	.0	.0	.0	.0	.0	
61-70	.0	.0	.0	.0	.0	.0	.0	
71-86	.0	.0	.0	.0	.0	.0	.0	
87+	.0	.0	.0	.0	.0	.0	.0	
TOT PCT	7.5	34.6	41.3	14.0	2.5	.2	100.0	6837

PERIOD: (OVER-ALL) 1949-1972

TABLE 19

PERCENT FREQUENCY OF WAVE HEIGHT (FT) VS WAVE PERIOD (SECONDS)

PERIOD (SEC)	<1	1-2	3-4	5-6	7	8-9	10-11	12	13-16	17-19	20-22	23-25	26-32	33-40	41-48	49-60	61-70	71-86	87+	TOTAL	MEAN HGT
<6	2.0	9.3	12.1	7.6	2.9	1.0	.6	.2	.2	.1	.0	.0	.0	.0	.0	.0	.0	.0	.0	3111	4
6-7	*	1.2	6.7	10.4	6.6	2.7	1.9	.9	.7	.2	.1	.0	*	.0	.0	.0	.0	.0	.0	2712	6
8-9	.0	.4	1.7	3.5	4.0	2.8	1.6	.9	.7	.2	.3	*	*	.0	.0	.0	.0	.0	.0	1394	7
10-11	.0	.2	.6	1.0	.9	1.2	.8	.5	.6	.1	.1	*	*	.1	.0	.0	.0	.0	.0	529	8
12-13	.0	.0	.4	.3	.3	.3	.3	.1	.3	.1	*	*	*	*	.0	.0	.0	.0	.0	182	9
>13	.0	.0	.0	.2	.1	.1	*	.1	.1	*	*	*	*	*	.0	.0	.0	.0	.0	67	11
INDET	2.6	1.2	1.3	1.2	.6	.2	.2	.1	.1	.1	*	*	*	*	.0	.0	.0	.0	.0	659	3
TOTAL																				8654	5
PCT	4.7	12.2	22.8	24.1	15.3	8.3	5.4	2.7	2.7	.8	.6	.1	.2	*	.0	.0	.0	.0	.0	100.0	

PERIOD: (PRIMARY) 1891-1972  
(OVER-ALL) 1854-1972

TABLE 20

AREA 0009 MELBOURNE SE  
38.55 146.9E

PERCENT FREQUENCY OF OCCURRENCE OF SEA TEMP (DEG F) BY MONTH

SEA TMP DEG F	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC	ANN	PCT
96+	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	0	.0
95/96	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	0	.0
93/94	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	0	.0
91/92	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	0	.0
89/90	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	0	.0
87/88	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	0	.0
85/86	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	0	.0
83/84	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	0	.0
81/82	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	0	.0
79/80	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	0	.0
77/78	.0	.1	*	.0	.0	.0	.0	.0	.0	.0	.0	.0	3	*
75/76	.2	.3	.1	.0	.0	.0	.0	.0	.0	.0	.0	.0	19	.1
73/74	.4	.9	.3	*	*	.0	.0	.0	.0	.0	.0	.1	59	.2
71/72	.5	1.9	1.3	.3	*	.0	.0	.0	.0	*	*	.2	149	.4
69/70	2.1	4.8	4.0	1.0	.3	.0	.1	.1	.0	.1	.1	.9	456	1.3
67/68	6.2	12.5	10.5	4.2	.7	.2	.1	.1	*	.1	.5	1.7	1242	3.5
65/66	17.4	25.5	20.7	9.8	2.4	.5	.1	.2	.0	.4	1.5	5.8	2821	7.9
63/64	35.5	36.9	36.5	26.1	8.4	1.8	.8	.3	.6	1.4	4.7	15.4	5574	15.5
61/62	25.2	12.7	19.8	31.8	19.2	5.2	1.7	1.2	2.0	3.4	11.7	29.1	5150	14.3
59/60	9.8	3.6	4.7	19.9	30.4	14.1	5.0	3.7	4.7	11.6	26.1	31.0	4907	13.7
57/58	1.8	.5	1.2	5.3	23.8	32.8	16.8	12.4	15.0	26.4	33.9	13.4	5198	14.5
55/56	.5	.3	.5	1.0	10.6	31.8	41.2	33.4	35.4	40.8	17.9	2.1	5935	16.5
53/54	.2	.2	.2	.2	3.4	10.2	26.2	37.2	32.7	12.8	2.7	.4	3403	9.5
51/52	*	.0	.0	.2	.5	2.4	5.7	9.0	7.9	2.3	.7	.0	770	2.1
49/50	.0	.0	.1	.1	.1	.5	1.9	1.8	1.4	.7	.2	.0	182	.5
47/48	.0	.0	.0	.1	.2	.4	.3	.3	.3	*	*	.0	43	.1
45/46	.0	.0	.0	.0	*	.2	.2	.2	.0	.0	.0	.0	16	*
43/44	.0	.0	.0	.0	.0	.0	.0	.1	.0	.0	.0	.0	2	*
41/42	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	0	.0
39/40	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	0	.0
37/38	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	0	.0
35/36	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	0	.0
33/34	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	0	.0
31/32	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	0	.0
29/30	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	0	.0
27/28	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	0	.0
<27	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	0	.0
TOTAL	34.9	32.8	36.8	32.35	30.11	26.10	25.56	25.77	27.68	30.15	29.41	28.28	35929	100.0
MEAN	63.2	64.5	64.0	62.0	59.2	56.8	55.3	54.7	55.0	56.4	58.4	60.9	59.2	

TABLE 21

PRESSURE (MB)

AVERAGE BY HOUR (GMT)

MO	0000	0300	0600	0900	1200	1500	1800	2100	MEAN	TOTAL OBS
JAN	1015	1012	1013	1012	1014	1012	1012	1011	1013	1863
FEB	1015	1014	1013	1013	1015	1014	1014	1014	1014	1887
MAR	1017	1017	1016	1017	1017	1017	1015	1017	1017	2134
APR	1018	1018	1017	1017	1019	1017	1016	1016	1017	1875
MAY	1018	1018	1016	1018	1018	1018	1017	1017	1017	1925
JUN	1020	1018	1018	1017	1020	1018	1019	1018	1019	1691
JUL	1017	1017	1016	1017	1018	1017	1015	1017	1017	1819
AUG	1016	1016	1015	1015	1017	1015	1015	1015	1015	1705
SEP	1015	1015	1014	1016	1015	1017	1015	1015	1015	1748
OCT	1016	1015	1014	1014	1017	1014	1014	1014	1015	1868
NOV	1012	1013	1011	1013	1012	1013	1011	1013	1012	1737
DEC	1013	1013	1011	1013	1013	1013	1011	1013	1012	1484
ANN	1016	1016	1015	1015	1016	1015	1015	1015	1015	21736
OBS	2846	2812	3889	2174	2636	1777	3539	2063		

PERCENTILES

MO	MIN	1%	5%	25%	50%	75%	95%	99%	MAX
JAN	986	994	1001	1008	1013	1017	1023	1025	1032
FEB	991	996	1003	1010	1014	1018	1024	1027	1030
MAR	992	997	1004	1012	1017	1022	1026	1030	1035
APR	985	994	1002	1012	1018	1023	1029	1032	1037
MAY	990	994	1003	1012	1018	1023	1030	1032	1038
JUN	989	995	1001	1011	1020	1025	1031	1035	1041
JUL	982	992	1000	1011	1017	1023	1031	1035	1037
AUG	981	986	997	1010	1016	1023	1030	1032	1037
SEP	985	989	999	1009	1016	1021	1028	1031	1037
OCT	976	994	1000	1009	1016	1020	1026	1030	1034
NOV	988	993	999	1007	1012	1018	1024	1027	1032
DEC	990	995	1000	1008	1012	1017	1023	1026	1031

JANUARY

PERIOD: (PRIMARY) 1897-1969  
(OVER-ALL) 1857-1969AREA 0010 TASMANIA EAST  
42.35 147.9E

TABLE 1

## PERCENT FREQUENCY OF WEATHER OCCURRENCE BY WIND DIRECTION

WIND DIR	PRECIPITATION TYPE							OTHER WEATHER PHENOMENA							NO SIG WEA
	RAIN	RAIN SHWR	DRZL	FRZG PCPN	SNOW	OTHER FRZN PCPN	HAIL	PCPN AT DB TIME	PCPN PAST HOUR	THOR LTNG	FGG WD PCPN	FGG WD PCPN PAST HR	SMOKE HAZE	SPRAY BLWG DUST	
N	2.8	3.3	2.4	.0	.0	.0	.0	8.5	.0	.4	3.5	.0	1.6	.0	86.0
NE	1.5	3.3	4.4	.0	.0	.0	.0	9.2	.0	.7	11.7	.0	.0	.0	78.4
E	5.9	4.7	7.1	.0	.0	.0	.0	17.6	.0	.0	2.4	.0	7.1	.0	72.9
SE	4.9	3.8	4.3	.0	.0	.0	.0	12.9	.0	.0	8.6	.0	1.1	.0	77.4
S	3.5	9.6	2.0	.0	.0	.0	.0	15.2	1.0	.0	3.5	.0	.8	.0	79.5
SW	2.0	13.9	1.7	.0	.0	.0	.0	17.5	5.6	.0	2.0	.0	1.7	.0	73.2
W	1.6	18.6	1.9	.0	.0	.0	1.1	23.3	3.0	.0	.5	.0	2.2	1.1	69.9
NW	3.9	5.2	.7	.0	.0	.0	.0	9.8	.7	1.3	3.3	.0	1.3	.0	85.0
VAR	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
CALM	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	100.0
TOT PCT	3.2	7.6	2.5	.0	.0	.0	.1	13.4	1.2	.4	4.2	.0	1.6	.1	79.3
TOT OBS:	753														

TABLE 2

## PERCENT FREQUENCY OF WEATHER OCCURRENCE BY HOUR

HOUR (GMT)	PRECIPITATION TYPE							OTHER WEATHER PHENOMENA							NO SIG WEA
	RAIN	RAIN SHWR	DRZL	FRZG PCPN	SNOW	OTHER FRZN PCPN	HAIL	PCPN AT DB TIME	PCPN PAST HOUR	THOR LTNG	FGG WD PCPN	FGG WD PCPN PAST HR	SMOKE HAZE	SPRAY BLWG DUST	
00003	3.8	5.4	.0	.0	.0	.0	.0	9.2	2.3	.0	6.9	.0	1.5	.8	79.2
06009	2.7	7.4	.4	.0	.0	.0	.0	10.5	.4	.0	3.9	.0	1.9	.0	83.3
12015	3.5	4.1	4.1	.0	.0	.0	.0	11.8	1.2	1.2	3.5	.0	1.8	.0	81.8
18021	4.5	8.9	4.1	.0	.0	.0	.3	17.8	1.0	.7	3.8	.0	1.0	.0	76.0
TOT PCT	3.6	6.9	2.4	.0	.0	.0	.1	13.1	1.1	.5	4.2	.0	1.5	.1	79.9
TOT OBS:	850														

TABLE 3

## PERCENTAGE FREQUENCY OF WIND DIRECTION BY SPEED AND BY HOUR

WIND DIR	WIND SPEED (KNOTS)							48+	TOTAL OBS	PCT FREQ	MEAN SPD	HOUR (GMT)						
	0-3	4-10	11-21	22-33	34-47	00	03					06	09	12	15	18	21	
N	2.0	8.2	5.4	1.3	.6	.0	17.4	11.2	17.7	20.7	12.1	14.1	15.7	18.1	16.4	24.5		
NE	.7	4.3	2.8	.8	.0	.0	8.6	11.5	11.5	4.8	9.1	9.4	7.9	11.5	10.6	5.5		
E	1.2	2.7	1.4	.1	.0	.0	5.5	8.5	6.3	6.3	6.6	6.3	6.4	4.0	4.1	5.2		
SE	3.0	6.4	2.7	.1	.0	.0	12.2	7.9	.0	15.2	22.5	18.8	5.0	5.3	6.6	8.2		
S	1.9	6.4	3.8	.8	.0	.0	12.9	10.1	4.2	11.5	17.6	17.6	17.1	11.9	12.3	6.5		
SW	1.3	2.6	4.2	2.5	.7	.0	11.3	15.8	17.7	15.2	6.6	10.2	10.0	14.6	8.4	12.5		
W	.4	3.1	5.3	2.5	1.2	.0	12.5	17.8	22.9	12.6	10.6	11.3	13.6	10.2	14.5	13.4		
NW	3.2	9.3	5.1	1.1	.4	.0	19.1	10.4	15.6	13.7	14.0	11.7	24.3	24.3	26.4	24.1		
VAR	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0		
CALM	.4						.5	3.0	4.2	.0	.8	.8	.0	.0	.7	.0		
TOT OBS	117	357	256	77	24	0	831	11.7		24	135	132	128	35	113	148	116	
TOT PCT	14.1	43.0	30.8	9.3	2.9	.0		100.0		100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	

TABLE 3A

WIND DIR	WIND SPEED (KNOTS)					TOTAL OBS	PCT FREQ	MEAN SPD	HOUR (GMT)			
	0-6	7-16	17-27	28-40	41+				00	06	12	18
N	6.5	6.8	3.1	1.0	.0		17.4	11.2	20.3	13.1	17.6	20.0
NE	1.9	4.7	1.8	.2	.0		8.6	11.5	5.8	9.2	10.6	8.4
E	2.5	2.3	.6	.1	.0		5.5	8.5	6.3	6.4	4.6	4.5
SE	5.7	5.0	1.5	.0	.0		12.2	7.9	12.9	20.7	5.2	7.3
S	4.5	6.0	1.9	.5	.0		12.9	10.1	10.4	17.6	13.2	9.8
SW	2.4	3.8	3.0	2.0	.1		11.3	15.8	15.6	8.4	13.5	10.2
W	1.2	4.4	4.8	1.8	.3		12.5	17.8	14.2	11.0	11.0	14.0
NW	6.8	8.5	2.9	.9	.0		19.1	10.4	14.0	12.9	24.3	23.4
VAR	.0	.0	.0	.0	.0		.0	.0	.0	.0	.0	.0
CALM	.4						.5	3.0	.6	.8	.0	.4
TOT OBS	266	345	163	54	3	831	11.7		159	260	148	264
TOT PCT	32.0	41.5	19.6	6.5	.4		100.0		100.0	100.0	100.0	100.0

PERIOD: (PRIMARY) 1897-1969  
(OVEN-ALL) 1857-1969

JANUARY

AREA 0010 TASMANIA EAST  
42.35 147.9E

TABLE 4

PERCENTAGE FREQUENCY OF WIND SPEED BY HOUR (GMT)

HOUR	CALM	1-3	4-10	WIND SPEED (KNOTS)			48+	MEAN	PCT FREQ	TOTAL OBS
				11-21	22-33	34-47				
00003	.6	15.7	29.6	34.0	15.1	5.0	.0	13.8	100.0	159
06009	.8	11.5	49.2	28.1	6.9	3.5	.0	11.4	100.0	260
12015	.0	11.5	45.3	33.1	8.8	1.4	.0	11.4	100.0	148
18021	.4	15.9	43.6	29.9	8.3	1.9	.0	10.9	100.0	264
TOT	.4	11.4	35.7	25.5	7.7	2.4	.0	11.7		831
PCT	.5	13.7	43.0	30.7	9.3	2.9	.0		100.0	

TABLE 5

PCT FREQ OF TOTAL CLOUD AMOUNT (EIGHTHS)  
BY WIND DIRECTION

WIND DIR	0-2	3-4	5-7	8-6	TOTAL CLOUD OBS	MEAN CLOUD COVER
N	2.2	2.2	4.6	4.6		5.5
NE	2.7	.4	3.1	6.4		6.0
E	3.5	.9	3.1	.0		3.9
SE	.7	.0	.9	1.3		6.0
S	1.5	.0	3.5	5.1		6.5
SW	1.1	3.5	5.5	1.3		4.7
W	4.2	4.2	6.9	2.9		4.6
NW	4.4	6.4	6.0	5.8		4.7
VAR	.0	.0	.0	.0		.0
CALM	.0	.0	.9	.0		5.0
TOT OBS	23	20	39	31	113	5.1
TOT PCT	20.4	17.7	34.5	27.4	100.0	

TABLE 6

PERCENTAGE FREQUENCY OF CEILING HEIGHTS (FT, NH > 4/8)  
AND OCCURRENCE OF NH < 5/8 BY WIND DIRECTION

	000	150	300	600	1000	2000	3500	5000	6500	8000+	NH < 5/8	TOTAL
	149	299	599	999	1999	3499	4999	6499	7999		ANY HGT	OBS
N	.0	.0	.0	1.3	6.6	.0	.7	.0	.0	.0	5.1	
NE	1.8	.0	.0	.0	2.4	2.7	1.8	.0	.0	.0	3.1	
E	.0	.0	.0	.0	.4	1.8	.0	.0	.0	.0	5.3	
SE	.0	.0	.0	.0	2.0	.2	.0	.0	.0	.0	.7	
S	.0	.0	.0	1.5	.7	3.8	1.8	.0	.0	.0	2.4	
SW	.0	.0	.0	.7	1.3	2.2	.9	.0	.0	.0	6.4	
W	.0	.0	.0	2.2	2.2	.9	.0	.0	.0	.0	12.8	
NW	.0	.0	.0	.4	2.9	2.7	1.1	.9	.0	.0	14.6	
VAR	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
CALM	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.9	
TOT OBS	2	0	0	7	21	16	7	1	0	1	58	113
TOT PCT	1.8	.0	.0	6.2	18.6	14.2	6.2	.9	.0	.9	51.3	100.0

TABLE 7

CUMULATIVE PCT FREQ OF SIMULTANEOUS OCCURRENCE  
OF CEILING HEIGHT (NH > 4/8) AND VSBY (NM)

CEILING (FEET)	VSBY (NM)							
	>10	>5	>2	>1	>1/2	>1/4	>50YD	>0
>6500	.9	.9	.9	.9	.9	.9	.9	.9
>5000	1.8	1.8	1.8	1.8	1.8	1.8	1.8	1.8
>3500	6.2	8.0	8.0	8.0	8.0	8.0	8.0	8.0
>2000	19.5	21.2	22.1	22.1	22.1	22.1	22.1	22.1
>1000	28.3	39.8	40.7	40.7	40.7	40.7	40.7	40.7
>600	31.0	44.2	46.9	46.9	46.9	46.9	46.9	46.9
>300	31.0	44.2	46.9	46.9	46.9	46.9	46.9	46.9
>150	31.0	44.2	46.9	46.9	46.9	46.9	46.9	46.9
>0	31.9	45.1	47.8	47.8	47.8	47.8	48.7	48.7
TOTAL	36	51	54	54	54	54	55	55

TOTAL NUMBER OF OBS: 113

PCT FREQ NH < 5/8: 51.3

TABLE 7A

PERCENTAGE FREQ OF LOW CLOUDS (EIGHTHS)

	0	1	2	3	4	5	6	7	8	OBS	TOTAL OBS
	5.8	12.5	7.5	18.3	7.5	10.0	4.2	9.2	23.3	1.7	120



PERIOD: (PRIMARY) 1897-1969  
(OVER-ALL) 1857-1969

JANUARY

AREA 0010 TASMANIA EAST  
42.35 147.9E

TABLE 8

PERCENT FREQ OF WIND DIRECTION VS OCCURRENCE OR NON-OCCURRENCE OF  
PRECIPITATION WITH VARYING VALUES OF VISIBILITY

VSBY (NM)		N	NE	E	SE	S	SW	W	NW	VAR	CALM	PCT	TOTAL OBS
<1/2	PCP	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
	NO PCP	.0	.1	.0	.0	.0	.0	.1	.1	.0	.0	.3	.3
	TOT %	.0	.1	.0	.0	.0	.0	.1	.1	.0	.0	.3	.3
1/2<1	PCP	.0	.1	.3	.3	.0	.0	.1	.0	.0	.0	.8	.8
	NO PCP	.5	.8	.1	.9	.5	.2	.0	.7	.0	.0	3.6	3.6
	TOT %	.5	.9	.3	1.1	.5	.2	.1	.7	.0	.0	4.4	4.4
1<2	PCP	.1	.0	.0	.0	.0	.0	.0	.1	.0	.0	.1	.1
	NO PCP	.1	.0	.4	.0	.0	.1	.0	.0	.0	.0	.7	.7
	TOT %	.2	.0	.4	.0	.0	.1	.0	.1	.0	.0	.8	.8
2<5	PCP	.1	.1	.1	.1	.0	.1	.2	*	.0	.0	.7	.7
	NO PCP	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
	TOT %	.1	.1	.1	.1	.0	.1	.2	*	.0	.0	.7	.7
5<10	PCP	1.3	.4	.6	1.2	1.6	1.6	2.3	1.6	.0	.0	10.6	10.6
	NO PCP	12.4	4.8	2.7	8.8	8.1	5.1	6.3	14.3	.0	.3	62.8	62.8
	TOT %	13.7	5.2	3.3	10.0	9.7	6.7	8.6	16.0	.0	.3	73.4	73.4
10+	PCP	.0	.2	.1	.0	.4	.1	.2	.3	.0	.0	1.2	1.2
	NO PCP	2.4	2.5	1.5	1.0	2.6	2.9	2.9	3.3	.0	.1	19.3	19.3
	TOT %	2.4	2.7	1.5	1.0	3.0	3.0	3.1	3.6	.0	.1	20.5	20.5
TOT OBS													
TOT PCT													
		16.9	9.1	5.6	12.3	13.1	10.0	12.1	20.4	.0	.4	100.0	753

TABLE 9

PERCENT FREQ OF WIND DIRECTION VS WIND SPEED  
WITH VARYING VALUES OF VISIBILITY

VSRY (NM)	SPD KTS	N	NE	E	SE	S	SW	W	NW	VAR	CALM	PCT	TOTAL OBS
<1/2	0-3	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
	4-10	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
	11-21	.0	.1	.0	.0	.0	.0	.0	.0	.0	.0	.1	.1
	22+	.0	.0	.0	.0	.0	.0	.1	.1	.0	.0	.1	.1
	TOT %	.0	.1	.0	.0	.0	.0	.1	.1	.0	.0	.3	.3
1/2<1	0-3	.0	.0	.0	.1	.2	.1	.0	.1	.0	.0	.5	.5
	4-10	.3	.9	.3	.9	.3	.0	.0	.6	.0	.0	3.3	3.3
	11-21	.0	.0	.1	.1	.0	.1	.1	.0	.0	.0	.4	.4
	22+	.1	.0	.0	.0	.0	.0	.0	.0	.0	.0	.1	.1
	TOT %	.5	.9	.3	1.1	.5	.2	.1	.7	.0	.0	4.3	4.3
1<2	0-3	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
	4-10	.0	.0	.1	.0	.0	.0	.0	.0	.0	.0	.1	.1
	11-21	.2	.0	.3	.0	.0	.1	.0	.1	.0	.0	.7	.7
	22+	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
	TOT %	.2	.0	.4	.0	.0	.1	.0	.1	.0	.0	.8	.8
2<5	0-3	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
	4-10	.1	.0	.0	.0	.0	.0	.0	.0	.0	.0	.1	.1
	11-21	.0	.0	.0	.3	.0	.0	.1	.0	.0	.0	.4	.4
	22+	.0	.1	.1	.0	.0	.1	.1	.0	.0	.0	.3	.3
	TOT %	.1	.1	.1	.3	.0	.1	.2	*	.0	.0	.8	.8
5<10	0-3	2.0	.7	.9	2.9	1.8	1.4	.4	3.1	.0	.3	13.4	13.4
	4-10	6.9	2.3	1.8	5.2	4.8	2.0	2.3	7.7	.0	.0	33.0	33.0
	11-21	3.6	1.4	.5	2.0	2.6	1.5	3.3	3.8	.0	.0	18.6	18.6
	22+	1.6	.8	.1	.1	.5	1.7	2.6	1.2	.0	.0	8.5	8.5
	TOT %	14.2	5.1	3.3	10.2	9.7	6.6	8.5	15.8	.0	.3	73.5	73.5
10+	0-3	.1	.0	.1	.1	.1	.0	.0	.1	.0	.0	.5	.5
	4-10	1.4	1.3	.6	.6	1.4	.4	.6	1.6	.0	.0	7.9	7.9
	11-21	.8	1.3	.8	.4	1.4	1.9	1.9	1.6	.0	.0	10.2	10.2
	22+	.1	.1	.0	.0	.1	.7	.5	.3	.0	.0	1.7	1.7
	TOT %	2.4	2.7	1.5	1.0	3.0	2.9	3.0	3.6	.0	.1	20.3	20.3
TOT OBS													
TOT PCT													
		17.3	8.9	5.6	12.5	13.1	9.9	12.0	20.3	.0	.4	100.0	763

PERIOD: (PRIMARY) 1897-1969  
(OVER-ALL) 1857-1969

JANUARY

AREA 0010 TASMANIA EAST  
42.35 147.9E

TABLE 10

PERCENT FREQUENCY OF CEILING HEIGHTS (FEET, NH >4/8) AND  
OCCURRENCE OF NH <5/8 BY HOUR

HOUR (GMT)	000 149	150 299	300 599	600 999	1000 1999	2000 3499	3500 4999	5000 6499	6500 7999	8000+	TOTAL ANY HGT	NH <5/8 TOTAL OBS
00003	.0	.0	.0	3.8	26.9	11.5	.0	.0	.0	.0	42.3	57.7
06009	4.5	.0	.0	9.1	4.5	13.6	4.5	.0	.0	4.5	40.9	59.1
12015	2.9	.0	.0	.0	23.5	14.7	5.9	.0	.0	.0	47.1	52.9
18021	.0	.0	.0	11.4	14.3	14.3	11.4	2.9	.0	.0	54.3	45.7
TOT	2	0	0	7	21	16	7	1	0	1	55	62
PCT	1.7	.0	.0	6.0	17.9	13.7	6.0	.9	.0	.9	47.0	53.0

TABLE 11

PERCENT FREQUENCY VSBY (NM) BY HOUR

HOUR (GMT)	<1/2	1/2<1	1<2	2<5	5<10	10+	TOTAL OBS
00003	.0	5.3	1.5	.8	71.4	21.1	133
06009	.4	4.5	.0	.8	79.2	15.1	265
12015	.0	4.1	.6	.0	67.1	28.2	170
18021	.3	4.8	1.0	1.4	77.7	14.7	292
TOT	2	40	6	7	646	159	860
PCT	.2	4.7	.7	.8	75.1	18.5	100.0

TABLE 12

CUMULATIVE PCT FREQ OF RANGES OF VSBY (NM) AND/OR  
CEILING HGT (FEET, NH >4/8), BY HOUR

HOUR (GMT)	<150 <50YD	<600 <1	<1000 <5	1000+ AND 5+	NH <5/8 AND 5+	TOTAL OBS
00003	.0	.0	8.3	37.5	54.2	24
06009	4.5	4.5	13.6	27.3	59.1	22
12015	3.1	3.1	3.1	46.9	50.0	32
18021	.0	.0	11.4	42.9	45.7	35
TOT	2	2	10	45	58	113
PCT	1.8	1.8	8.8	39.8	51.3	100.0

TABLE 13

PERCENT FREQUENCY OF RELATIVE HUMIDITY BY TEMP

TEMP F	0-29	30-39	40-49	50-59	60-69	70-79	80-89	90-100	TOTAL OBS	PCT FREQ
65/69	.0	.0	.0	.0	.0	.6	4.2	4.2	15	9.1
60/64	.0	.0	.0	2.4	6.1	8.5	13.3	12.7	71	43.0
55/59	.0	.0	.0	1.8	5.5	15.2	9.1	7.9	65	39.4
50/54	.0	.0	.0	.0	1.2	1.8	3.0	2.4	14	8.5
TOTAL	0	0	0	7	21	43	49	45	165	100.0
PCT	.0	.0	.0	4.2	12.7	26.1	29.7	27.3		

TABLE 14

PERCENT FREQUENCY OF WIND DIRECTION BY TEMP

	N	NE	E	SE	S	SW	W	NW	VAR	CALM
65/69	4.1	2.3	.3	.0	1.1	.2	.0	1.2	.0	.0
60/64	9.2	4.7	5.9	3.2	3.0	2.6	2.9	10.3	.0	1.2
55/59	4.7	2.4	3.8	1.4	5.5	9.2	7.1	4.7	.0	.6
50/54	.5	.8	.0	.2	1.1	2.0	2.9	1.2	.0	.0
TOTAL	18.5	10.2	10.0	4.7	10.6	13.9	12.9	17.4	.0	1.8

TABLE 15

MEANS, EXTREMES AND PERCENTILES OF TEMP (DEG F) BY HOUR

HOUR (GMT)	MAX	99%	95%	50%	5%	1%	MIN	MEAN	TOTAL OBS
00003	77	75	71	61	55	51	50	61.9	165
06009	78	77	71	61	54	51	50	61.8	276
12015	74	68	65	59	53	50	50	58.8	177
18021	72	69	65	58	52	50	48	58.4	306
TOT	78	74	69	60	53	50	48	60.1	924

TABLE 16

PERCENT FREQUENCY OF RELATIVE HUMIDITY BY HOUR

HOUR (GMT)	0-29	30-39	40-49	50-59	60-69	70-79	80-89	90-100	MEAN	TOTAL OBS
00003	.0	8.6	20.0	14.3	28.6	28.6	80	35		
06009	.0	5.4	8.1	37.8	29.7	18.9	79	37		
12015	.0	4.5	6.8	29.5	36.4	22.7	82	44		
18021	.0	3.6	14.3	19.6	25.0	37.5	83	56		
TOT	0	9	21	43	51	48	81	172		

## JANUARY

PERIOD: (PRIMARY) 1897-1969  
(OVER-ALL) 1857-1969

TABLE 17

AREA 0010 TASMANIA EAST  
42.35 147.9EPCT FREQ OF AIR TEMPERATURE (DEG F) AND THE OCCURRENCE OF FOG (WITHOUT PRECIPITATION)  
VS AIR-SEA TEMPERATURE DIFFERENCE (DEG F)

AIR-SEA TMP DIF	45 48	49 52	53 56	57 60	61 64	65 68	69 72	73 76	TOT	W FOG	WD FOG
11/13	.0	.0	.0	.0	.1	.0	.4	.4	7	.0	.9
9/10	.0	.0	.0	.0	.0	.0	.3	.4	5	.0	.6
7/8	.0	.0	.0	.0	.3	.6	1.1	.3	18	.0	2.3
6	.0	.0	.0	.0	.8	.4	.5	.1	14	.1	1.6
5	.0	.0	.0	.0	.5	1.4	.6	.1	21	.0	2.6
4	.0	.0	.0	.5	1.5	2.6	1.0	.0	45	.3	5.4
3	.0	.0	.0	.9	2.6	2.0	.1	.0	45	.3	5.4
2	.0	.0	.3	1.9	4.4	2.3	.0	.0	70	.8	8.0
1	.0	.0	.9	2.4	5.0	1.8	.0	.0	80	.9	9.2
0	.0	.0	1.5	4.6	4.6	.5	.0	.0	90	.9	10.4
-1	.0	.0	1.9	7.0	4.1	.4	.0	.0	107	.5	12.9
-2	.0	.0	2.3	7.2	1.8	.0	.0	.0	89	.3	10.9
-3	.0	.1	3.0	5.1	.6	.1	.0	.0	72	.3	8.8
-4	.0	.1	2.4	2.5	.4	.0	.0	.0	43	.0	5.4
-5	.0	.3	2.4	1.3	.0	.0	.0	.0	31	.0	3.9
-6	.0	.3	1.4	.8	.0	.0	.0	.0	19	.1	2.3
-7/-8	.0	1.4	1.6	.4	.0	.0	.0	.0	27	.0	3.4
-9/-10	.1	.6	.6	.0	.0	.0	.0	.0	11	.0	1.4
-11/-13	.0	.3	.0	.1	.0	.0	.0	.0	3	.0	.4
TOTAL	1		145		213		32		797	34	763
PCT	.1	24	18.2	34.6	26.7	12.0	4.0	1.3	100.0	4.3	95.7

PERIOD: (OVER-ALL) 1963-1969

TABLE 18

PCT FREQ OF WIND SPEED (KTS) AND DIRECTION VERSUS SEA HEIGHTS (FT)

HGT	1-3	4-10	11-21	22-33	34-47	48+	PCT	1-3	4-10	11-21	22-33	34-47	48+	PCT
<1	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
1-2	.0	5.1	.0	.0	.0	.0	5.1	.0	3.2	.0	.0	.0	.0	3.2
3-4	.0	1.6	4.8	.0	.0	.0	6.4	.0	1.6	3.2	.0	.0	.0	4.8
5-6	.0	.0	1.9	.0	.0	.0	1.9	.0	.0	1.3	.0	.0	.0	1.3
7	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
8-9	.0	.0	1.1	.0	.0	.0	1.1	.0	.0	.0	.0	.0	.0	.0
10-11	.0	.0	.0	2.1	.0	.0	2.1	.0	.0	.0	.0	.0	.0	.0
12	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
13-16	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
17-19	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
20-22	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
23-25	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
26-32	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
33-40	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
41-48	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
49-60	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
61-70	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
71-86	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
87+	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
TOT PCT	.0	6.6	7.7	2.1	.0	.0	16.5	.0	4.8	4.5	.0	.0	.0	9.3

HGT	1-3	4-10	11-21	22-33	34-47	48+	PCT	1-3	4-10	11-21	22-33	34-47	48+	PCT
<1	1.1	.0	.0	.0	.0	.0	1.1	.0	.0	.0	.0	.0	.0	.0
1-2	.0	1.1	.0	.0	.0	.0	1.1	.0	.3	1.1	.0	.0	.0	1.3
3-4	.0	.0	.8	.0	.0	.0	.8	.0	1.1	.3	.0	.0	.0	1.3
5-6	.0	.0	1.9	.0	.0	.0	1.9	.0	.0	.5	.0	.0	.0	.5
7	.0	.0	.0	.0	.0	.0	.0	.0	.3	.0	.0	.0	.0	.3
8-9	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
10-11	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
12	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
13-16	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
17-19	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
20-22	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
23-25	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
26-32	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
33-40	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
41-48	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
49-60	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
61-70	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
71-86	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
87+	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
TOT PCT	1.1	1.1	2.7	.0	.0	.0	4.8	.0	1.6	1.9	.0	.0	.0	3.5

PERIOD: (OVER-ALL) 1963-1969

JANUARY

AREA 0010 TASMANIA EAST  
42.3S 147.9E

TABLE 18 (CONT)

PCT FREQ OF WIND SPEED (KTS) AND DIRECTION VERSUS SEA HEIGHTS (FT)

HGT	S							PCT	SW							PCT
	1-3	4-10	11-21	22-33	34-47	48+			1-3	4-10	11-21	22-33	34-47	48+		
<1	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
1-2	.0	1.9	.0	.0	.0	.0	1.9	.0	.0	1.3	.0	.0	.0	.0	.0	1.3
3-4	.0	2.1	3.2	.0	.0	.0	5.3	.0	.0	1.1	1.1	.0	.0	.0	.0	2.1
5-6	.0	.8	2.9	.0	.0	.0	3.7	.0	.0	.3	2.7	.0	.0	.0	.0	2.9
7	.0	.8	.0	1.1	.0	.0	1.9	.0	.0	.0	1.1	1.3	.0	.0	.0	2.4
8-9	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	1.1	.0	.0	.0	1.1
10-11	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	1.1	.0	.0	.0	1.1
12	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	1.1	.0	.0	.0	1.1
13-16	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
17-19	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
20-22	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
23-25	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
26-32	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
33-40	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
41-48	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
49-60	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
61-70	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
71-86	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
87+	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
TOT PCT	.0	5.6	6.1	1.1	.0	.0	12.8	.0	1.6	4.8	4.5	.0	.0	.0	10.9	

HGT	W							PCT	NW							PCT	TOTAL PCT
	1-3	4-10	11-21	22-33	34-47	48+			1-3	4-10	11-21	22-33	34-47	48+			
<1	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
1-2	.0	.8	1.1	.0	.0	.0	1.9	.0	.0	2.4	1.1	.0	.0	.0	.0	3.5	
3-4	.0	.8	2.1	.0	.0	.0	2.9	.0	.0	3.5	10.1	1.1	.0	.0	.0	14.6	
5-6	.0	.0	4.8	.8	.0	.0	5.6	.0	.0	.0	4.3	.3	.0	.0	.0	4.5	
7	.0	.0	.0	.8	1.1	.0	1.9	.0	.0	.0	.0	.0	1.1	.0	.0	1.1	
8-9	.0	.0	2.1	1.1	.0	.0	3.2	.0	.0	.0	.0	.0	.0	.0	.0	.0	
10-11	.0	.0	.0	1.1	.0	.0	1.1	.0	.0	.0	.0	.0	.0	.0	.0	.0	
12	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
13-16	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
17-19	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
20-22	.0	.0	.0	.0	.0	1.1	1.1	.0	.0	.0	.0	.0	.0	.0	.0	.0	
23-25	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
26-32	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
33-40	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
41-48	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
49-60	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
61-70	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
71-86	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
87+	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
TOT PCT	.0	1.6	10.1	3.7	2.1	.0	17.6	.0	5.9	15.4	1.3	2.1	.0	.0	24.7	100.0	

WIND SPEED (KTS) VS SEA HEIGHT (FT)

HGT	0-3	4-10	11-21	22-33	34-47	48+	PCT	TOT DBS
<1	1.1	.0	.0	.0	.0	.0	1.1	
1-2	.0	14.9	3.2	.0	.0	.0	18.1	
3-4	.0	11.7	25.5	1.1	.0	.0	38.3	
5-6	.0	1.1	20.2	1.1	.0	.0	22.3	
7	.0	1.1	1.1	3.2	2.1	.0	7.4	
8-9	.0	.0	3.2	2.1	.0	.0	5.3	
10-11	.0	.0	.0	4.3	.0	.0	4.3	
12	.0	.0	.0	1.1	.0	.0	1.1	
13-16	.0	.0	.0	.0	.0	.0	.0	
17-19	.0	.0	.0	.0	.0	.0	.0	
20-22	.0	.0	.0	.0	2.1	.0	2.1	
23-25	.0	.0	.0	.0	.0	.0	.0	
26-32	.0	.0	.0	.0	.0	.0	.0	
33-40	.0	.0	.0	.0	.0	.0	.0	
41-48	.0	.0	.0	.0	.0	.0	.0	
49-60	.0	.0	.0	.0	.0	.0	.0	
61-70	.0	.0	.0	.0	.0	.0	.0	
71-86	.0	.0	.0	.0	.0	.0	.0	
87+	.0	.0	.0	.0	.0	.0	.0	
TOT PCT	1.1	28.7	53.2	12.8	4.3	.0	100.0	94

PERIOD: (OVER-ALL) 1950-1969

TABLE 19

PERCENT FREQUENCY OF WAVE HEIGHT (FT) VS WAVE PERIOD (SECONDS)

PERIOD (SEC)	<1	1-2	3-4	5-6	7	8-9	10-11	12	13-16	17-19	20-22	23-25	26-32	33-40	41-48	49-60	61-70	71-86	87+	TOTAL	MEAN HGT
<6	.0	2.9	17.1	3.8	1.0	.0	1.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	27	4
6-7	.0	.0	9.5	15.2	8.7	2.9	4.8	1.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	42	5
8-9	.0	.0	.0	2.9	8.6	1.0	.0	1.0	1.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	13	7
10-11	.0	.0	.0	1.9	1.0	1.0	2.9	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	7	8
12-13	.0	.0	.0	.0	1.0	.0	1.9	.0	3.8	.0	1.0	.0	.0	.0	.0	.0	.0	.0	.0	8	13
>13	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	1.9	.0	.0	.0	.0	.0	.0	.0	.0	2	20
INDET	.0	.0	.0	.0	1.9	1.9	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	4	8
TOTAL	0	3	28	25	21	7	11	2	5	0	3	0	0	0	0	0	0	0	0	105	6
PCT	.0	2.9	26.7	23.8	20.0	6.7	10.5	1.9	4.8	.0	2.9	.0	.0	.0	.0	.0	.0	.0	.0	100.0	

## FEBRUARY

PERIOD: (PRIMARY) 1892-1971  
(OVER-ALL) 1857-1971

AREA 0010 TASMANIA EAST  
42.25 147.8E

TABLE 1

## PERCENT FREQUENCY OF WEATHER OCCURRENCE BY WIND DIRECTION

PRECIPITATION TYPE										OTHER WEATHER PHENOMENA						
WIND DIR	RAIN	RAIN SHWR	DRZL	FRZG PCPN	SNOW	OTHER FRZN PCPN	HAIL	PCPN AT DB TIME	PCPN PAST HOUR	THDR LTNG	FOG WD PCPN	FOG WD PCPN PAST HR	SMOKE HAZE	SPRAY BLWG DUST SIG	NO WEA	
N	.0	3.1	1.0	.0	.0	.0	.0	4.1	.8	.0	16.6	.8	1.0	.0	76.8	
NE	1.5	1.5	3.5	.0	.0	.0	.0	6.5	1.9	1.5	8.5	.4	1.5	.0	79.6	
E	2.7	.0	2.1	.0	.0	.0	.0	4.8	2.1	.0	13.7	.0	.0	.0	79.5	
SE	2.6	2.3	1.7	.0	.0	.0	.0	6.6	.7	.0	19.3	.0	.0	.0	73.4	
S	7.5	8.7	4.2	.0	.0	.0	.0	20.3	.0	.0	6.9	.0	.7	.0	72.1	
SW	4.1	15.4	1.4	.0	.0	.0	.6	21.5	.0	.6	10.5	.0	.0	.0	68.0	
W	3.0	11.7	2.6	.0	.0	.0	.8	18.1	.0	.8	9.8	.0	.0	.0	72.1	
NW	.8	8.9	.0	.0	.0	.0	.0	9.8	.0	.0	8.9	.0	.0	.0	81.3	
VAR	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
CALM	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	100.0	.0	.0	.0	
TOT PCT	3.0	6.7	2.0	.0	.0	.0	.1	11.8	.5	.3	12.2	.3	.4	.0	74.7	
TOT OBS:	796															

TABLE 2

## PERCENT FREQUENCY OF WEATHER OCCURRENCE BY HOUR

PRECIPITATION TYPE										OTHER WEATHER PHENOMENA						
HOUR (GMT)	RAIN	RAIN SHWR	DRZL	FRZG PCPN	SNOW	OTHER FRZN PCPN	HAIL	PCPN AT 08 TIME	PCPN PAST HOUR	THOR LTNG	FGG WD PCPN	FOG WD PCPN PAST HR	SMOKE HAZE	SPRAY BLWG BLWG	DUST SNOW	NO SIG WEA
00603	1.3	6.3	3.8	.0	.0	.0	.0	11.3	1.3	.0	13.8	.0	1.3	.0	.0	72.5
06609	2.6	6.9	1.6	.0	.0	.0	.0	11.1	.0	.0	14.1	.0	.7	.0	.0	74.2
12615	3.3	4.4	1.6	.0	.0	.0	.0	9.3	1.6	.5	12.0	.5	.0	.0	.0	76.5
18621	4.3	5.0	2.0	.0	.0	.0	.3	11.7	.3	.3	12.4	.3	.0	.0	.0	74.9
TOT PCT	3.1	5.7	2.1	.0	.0	.0	.1	11.0	.6	.2	13.1	.2	.4	.0	.0	74.6
TOT OBS:	948															

TABLE 3

## PERCENTAGE FREQUENCY OF WIND DIRECTION BY SPEED AND BY HOUR

WIND DIR	WIND SPEED (KNOTS)							48+	TOTAL OBS	PCT FREQ	MEAN SPD	HOUR (GMT)						
	0-3	4-10	11-21	22-33	34-47	00	03					06	09	12	15	18	21	
N	2.0	5.2	3.9	1.4	.0	.0		12.5	11.0	13.9	12.8	6.4	10.0	11.8	16.7	16.9	14.0	
NE	1.0	3.5	3.0	.7	.0	.0		8.2	11.0	15.7	7.1	10.9	11.1	16.7	5.4	5.7	4.2	
E	.8	2.5	.8	.3	.0	.0		4.5	8.8	9.3	6.0	5.5	3.3	7.6	3.3	3.1	3.0	
SE	4.2	11.8	3.2	.8	.0	.0		20.0	8.0	5.6	23.3	37.6	28.6	13.9	15.8	5.2	7.2	
S	1.4	7.0	6.1	2.3	.6	.0		17.4	13.0	13.9	15.9	17.0	19.2	16.0	19.6	20.4	13.5	
SW	1.8	4.1	3.1	2.0	.9	.4		12.2	15.2	23.1	8.2	5.7	11.6	9.0	13.8	18.5	17.8	
W	.8	3.0	2.0	2.5	.8	.1		9.2	17.6	9.3	10.2	5.5	6.5	16.7	11.3	9.8	11.0	
NW	4.7	7.1	2.5	1.4	.1	.0		15.8	8.6	9.3	16.5	11.3	9.8	8.3	14.2	19.6	29.2	
VAR	.0	.0	.0	.0	.0	.0		.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
CALM	.1							.1	.0	.0	.0	.0	.0	.0	.0	.0	.0	
TOT OBS	153	404	225	105	21	5	913		11.4	27	176	163	198	36	120	135	118	
TOT PCT	16.8	44.2	24.6	11.5	2.3	.5		100.0		100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	

TABLE 3A

WIND DIR	0-6	WIND SPEED (KNOTS)				41+	TOTAL OBS	PCT FREQ	MEAN SPD	HOUR (GMT)				
		7-16	17-27	28-40	00 03					06 09	12 15	18 21		
N	4.1	5.5	2.3	.6	.0		12.5	11.0	12.9	8.1	15.5	15.5		
NE	2.5	3.8	1.7	.2	.0		8.2	11.0	8.3	11.0	8.0	5.0		
E	2.0	2.2	.1	.2	.0		4.5	8.8	6.4	4.5	4.3	3.1		
SE	9.5	8.6	1.8	.1	.0		20.0	8.0	20.9	33.5	15.4	6.1		
S	4.4	8.1	3.8	.8	.3		17.4	13.0	15.6	18.0	18.8	17.2		
SW	3.8	3.6	2.9	1.4	.5		12.2	15.2	10.2	8.4	12.7	18.2		
W	1.8	2.8	2.4	1.9	.3		9.2	17.6	10.1	6.0	12.5	10.4		
NW	8.1	5.3	2.0	1.4	.1		15.8	8.6	15.5	10.6	12.8	24.1		
VAR	.0	.0	.0	.0	.0		.0	.0	.0	.0	.0	.0		
CALM	.1						.1	.0	.0	.0	.0	.4		
TOT OBS	332	364	155	51	11	913		11.4	203	301	156	253		
TOT PCT	36.4	39.9	17.0	5.6	1.2		100.0		100.0	100.0	100.0	100.0		



NAVAL WEATHER SERVICE DETACHMENT ASHEVILLE NC F/6 4/2  
SUMMARY OF SYNOPTIC METEOROLOGICAL OBSERVATIONS (SSMO). AUSTRAL--ETC(U)  
SEP 77

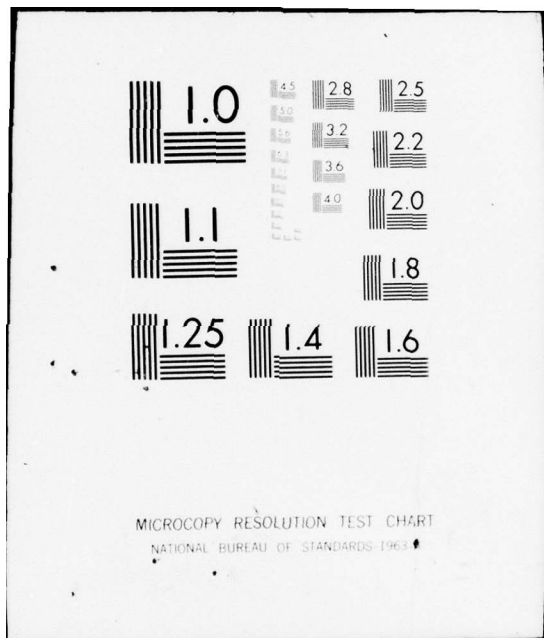
F/G 4/2  
TRAL--ETC(U)

NL

2 of 6  
AD  
A044426

AD  
A044426

Year	2000
Year	2001
Year	2002



PERIOD: (PRIMARY) 1892-1971  
(OVER-ALL) 1857-1971

# FEBRUARY

AREA 0010 TASMANIA EAST  
42.2S 147.8E

TABLE 4

## PERCENTAGE FREQUENCY OF WIND SPEED BY HOUR (GMT)

HOUR	CALM	WIND SPEED (KNOTS)			48+	MEAN	PCT FREQ	TOTAL OBS
		1-3	4-10	11-21 22-33 34-47				
00003	.0	16.3	41.4	28.1 11.8 2.0	.5	11.7	100.0	203
06009	.0	11.6	50.8	25.9 10.0 1.3	.3	11.0	100.0	301
12015	.0	19.2	37.2	24.4 14.1 4.5	.6	12.4	100.0	156
18021	.4	21.3	43.1	20.6 11.5 2.4	.8	11.0	100.0	253
TOT	1	152	404	225 105 21	5	11.4		913
PCT	.1	16.6	44.2	24.6 11.5 2.3	.5	100.0		

TABLE 5

## PCT FREQ OF TOTAL CLOUD AMOUNT (EIGHTHS) BY WIND DIRECTION

WIND DIR	0-2	3-4	5-7	8 & OBS	TOTAL OBS	MEAN CLOUD COVER
N	6.0	1.2	1.4	3.2		3.7
NE	3.6	.4	4.4	4.2		5.1
E	1.2	1.4	2.0	4.2		6.1
SE	1.2	.0	4.0	6.2		6.8
S	3.8	1.6	4.8	8.0		5.6
SW	1.8	.0	7.8	5.4		6.2
W	5.6	1.2	4.2	3.6		4.3
NW	.8	1.4	3.4	1.2		5.0
VAR	.0	.0	.0	.0		.0
CALM	.8	.0	.0	.0		.0
TOT OBS	31	9	40	45	125	5.3
TOT PCT	24.8	7.2	32.0	36.0	100.0	

TABLE 6

## PERCENTAGE FREQUENCY OF CEILING HEIGHTS (FT, NH >4/8) AND OCCURRENCE OF NH <5/8 BY WIND DIRECTION

000	150	300	600	1000	2000	3500	5000	6500	8000+	NH <5/8 ANY HGT	TOTAL OBS
149	299	599	999	1999	3499	4999	6499	7999			
.6	.0	.0	.0	2.0	.4	.8	.0	.0	.0	8.0	
.0	.0	.0	.0	4.0	3.0	.0	.0	.0	.0	5.6	
.0	.0	.0	1.2	3.6	1.4	.0	.0	.0	.0	2.6	
.0	.0	.0	2.8	4.0	1.6	.0	.0	.0	.0	3.0	
.8	.8	.0	1.6	3.2	4.6	.0	.0	.0	.0	7.2	
.0	.0	.0	2.4	5.8	3.0	.0	.0	.0	.0	3.8	
.0	.0	.0	1.4	1.8	3.8	.0	.0	.0	.0	7.6	
.2	.0	.0	.2	.4	2.2	.0	.0	.0	.0	3.8	
.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.8	
.2	1	0	12	31	25	1	0	0	0	53	125
1.6	.8	.0	9.6	24.8	20.0	.8	.0	.0	.0	42.4	100.0

TABLE 7

## CUMULATIVE PCT FREQ OF SIMULTANEOUS OCCURRENCE OF CEILING HEIGHT (NH >4/8) AND VSBY (NM)

CEILING (FEET)	VSBY (NM)			OR			OR			OR		
	>10	>5	>2	>1	>1/2	>1/4	>50YD	>0				
>6500	.0	.0	.0	.0	.0	.0	.0	.0				
>5000	.0	.0	.0	.0	.0	.0	.0	.0				
>3500	.0	.8	.8	.8	.8	.8	.8	.8				
>2000	7.0	18.6	19.4	20.2	20.2	20.2	20.2	20.2				
>1000	25.6	42.6	45.0	45.7	45.7	45.7	45.7	45.7				
>600	31.8	52.7	55.0	55.8	55.8	55.8	55.8	55.8				
>300	31.8	52.7	55.0	55.8	55.8	55.8	55.8	55.8				
>150	31.8	53.5	55.8	56.6	56.6	56.6	56.6	56.6				
>0	32.6	54.3	56.6	57.4	57.4	58.1	58.1	58.1				
TOTAL	42	70	73	74	74	75	75	75				

TOTAL NUMBER OF OBS: 129

PCT FREQ NH <5/8 41.9

TABLE 7A

## PERCENTAGE FREQ OF LOW CLOUDS (EIGHTHS)

0	1	2	3	4	5	6	7	8	OBS	TOTAL OBS
8.8	13.2	13.2	7.5	4.4	8.2	8.8	10.1	25.2	.6	159

PERIOD: (PRIMARY) 1892-1971  
(OVER-ALL) 1857-1971

FEBRUARY

AREA 0010 TASMANIA EAST  
42.25 147.8E

TABLE 8

PERCENT FREQ OF WIND DIRECTION VS OCCURRENCE OR NON-OCCURRENCE OF  
PRECIPITATION WITH VARYING VALUES OF VISIBILITY

VISBY (NM)	N	NE	E	SE	S	SW	W	NW	VAR	CALM	PCT	TOTAL OBS
PCP	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
NO PCP	.1	.3	.0	.0	.0	.0	.0	.2	.0	.0	.5	
TOT %	.1	.3	.0	.0	.0	.0	.0	.2	.0	.0	.5	
PCP	.1	.1	.0	.4	.5	.1	.0	.0	.0	.0	1.3	
NO PCP	1.3	.3	.6	4.5	1.3	1.1	.6	1.3	.0	.0	10.9	
TOT %	1.4	.4	.6	4.8	1.8	1.3	.6	1.3	.0	.0	12.2	
PCP	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
NO PCP	.8	.0	.0	.1	.0	.0	.1	.1	.0	.1	1.3	
TOT %	.8	.0	.0	.1	.0	.0	.1	.1	.0	.1	1.3	
PCP	.0	*	.2	.0	.1	.0	.0	.1	.0	.0	.5	
NO PCP	.2	.1	.0	.0	.6	.0	.1	.0	.0	.0	1.0	
TOT %	.2	.1	.2	.0	.8	.0	.1	.1	.0	.0	1.5	
PCP	.4	.4	.0	.7	2.6	2.3	1.4	1.4	.0	.0	9.0	
NO PCP	7.2	4.5	2.3	13.5	9.5	5.7	4.3	10.9	.0	.0	57.8	
TOT %	7.5	4.8	2.3	14.2	12.1	7.9	5.7	12.2	.0	.0	66.8	
PCP	.0	.0	.0	.4	.5	.1	.1	.0	.0	.0	1.0	
NO PCP	2.3	2.5	1.4	2.3	3.0	2.2	1.7	1.3	.0	.0	14.7	
TOT %	2.3	2.5	1.4	2.7	3.5	2.2	1.8	1.3	.0	.0	17.7	
TOT OBS												796
TOT PCT	12.3	8.2	4.6	21.8	18.1	11.4	8.3	15.1	.0	.1	100.0	

TABLE 9

PERCENT FREQ OF WIND DIRECTION VS WIND SPEED  
WITH VARYING VALUES OF VISIBILITY

VISBY (NM)	SPO KTS	N	NE	E	SE	S	SW	W	NW	VAR	CALM	PCT	TOTAL OBS
0-3	.1	.0	.0	.0	.0	.0	.0	.0	.2	.0	.0	.2	
4-10	.0	.2	.0	.0	.0	.0	.0	.0	.0	.0	.0	.2	
11-21	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
22+	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
TOT %	.1	.2	.0	.0	.0	.0	.0	.0	.2	.0	.0	.5	
0-3	.4	.4	.0	1.0	.5	.5	.1	.8	.0	.0	3.7		
4-10	.5	.0	.6	2.6	.5	.5	.2	1.2	.0	.0	6.3		
11-21	.4	.1	.0	1.1	.3	.1	.2	.0	.0	.0	2.2		
22+	.0	.0	.0	.4	.1	.0	.0	.0	.0	.0	.5		
TOT %	1.4	.4	.6	4.8	1.8	1.2	.5	2.0	.0	.0	12.7		
0-3	.0	.0	.0	.1	.0	.0	.0	.0	.0	.0	.1	.2	
4-10	.0	.0	.0	.1	.0	.0	.0	.0	.0	.0	.1	.1	
11-21	.7	.0	.0	.0	.0	.0	.0	.0	.0	.0	.7	.7	
22+	.1	.0	.0	.0	.0	.0	.1	.1	.0	.0	.2	.2	
TOT %	.8	.0	.0	.2	.0	.0	.1	.1	.0	.1	1.3	1.3	
0-3	.0	.0	.0	.0	.1	.1	.0	.0	.0	.0	.1	.1	
4-10	.1	.1	.0	.0	.1	.0	.0	.0	.0	.0	.2	.2	
11-21	.0	*	.1	.0	.2	.0	.0	.0	.0	.0	.4	.4	
22+	.1	*	.1	.1	.4	.0	.1	.1	.0	.0	1.0	1.0	
TOT %	.2	.1	.2	.1	.8	.1	.1	.1	.1	.0	1.7	1.7	
0-3	1.4	.6	.7	3.2	.8	1.3	.5	3.9	.0	.0	12.4		
4-10	3.7	2.0	1.3	8.9	5.3	2.1	1.7	5.9	.0	.0	30.8		
11-21	1.5	1.5	.3	1.1	4.3	2.3	1.3	2.0	.0	.0	14.4		
22+	1.1	.6	.0	.4	1.4	1.9	2.0	.7	.0	.0	8.1		
TOT %	7.8	4.7	2.2	13.6	11.7	7.6	5.5	12.5	.0	.0	69.7		
0-3	.2	.1	.1	.2	.1	.0	.1	.1	.0	.0	1.1		
4-10	1.0	1.2	.8	1.3	1.4	.9	.4	.4	.0	.0	7.4		
11-21	1.1	1.4	.5	1.0	1.4	.5	.3	.3	.0	.0	6.8		
22+	.1	.1	.0	.2	.5	.8	.7	.4	.0	.0	2.9		
TOT %	2.5	2.8	1.5	2.7	3.4	2.2	1.8	1.2	.0	.0	18.1		
TOT OBS													828
TOT PCT	12.7	8.3	4.5	21.5	17.6	11.1	8.1	16.1	.0	.1	100.0		

PERIOD: (PRIMARY) 1892-1971  
(OVER-ALL) 1857-1971

FEBRUARY

AREA 0010 TASMANIA EAST  
42.25 147.8E

TABLE 10

PERCENT FREQUENCY OF CEILING HEIGHTS (FEET, NH >4/8) AND  
OCCURRENCE OF NH <5/8 BY HOUR

HR (GMT)	000 149	150 299	300 599	600 999	1000 1999	2000 3499	3500 4999	5000 6499	6500 7999	8000+	TOTAL	NH <5/8 ANY HGT	TOTAL OBS
00003	2.9	2.9	.0	8.8	29.4	17.6	.0	.0	.0	.0	61.8	38.2	34
06009	.0	.0	.0	12.5	17.5	15.0	.0	.0	.0	.0	45.0	55.0	40
12015	.0	.0	.0	10.0	22.5	22.5	.0	.0	.0	.0	55.0	45.0	40
18021	2.8	.0	.0	2.8	19.4	11.1	2.8	.0	.0	.0	38.9	61.1	36
TOT	2	1	0	13	33	25	1	0	0	0	75	75	150
PCT	1.3	.7	.0	8.7	22.0	16.7	.7	.0	.0	.0	50.0	50.0	100.0

TABLE 11

PERCENT FREQUENCY VS BY (NM) BY HOUR

HR (GMT)	<1/2	1/2<1	1<2	2<5	5<10	10+	TOTAL OBS
00003	1.2	16.0	1.2	1.8	65.1	14.8	169
06009	.6	16.8	.0	2.2	65.7	14.6	321
12015	.0	10.8	2.2	1.6	64.0	21.5	186
18021	.0	12.1	1.6	1.0	70.5	14.8	305
TOT	4	138	11	16	655	157	981
PCT	.4	14.1	1.1	1.6	66.8	16.0	100.0

TABLE 12

CUMULATIVE PCT FREQ OF RANGES OF VS BY (NM) AND/OR  
CEILING HGT (FEET, NH >4/8), BY HOUR

HR (GMT)	<150 <50YD	<600 <1	<1000 <5	1000+ AND 5+	NH <5/8 AND 5+	TOTAL OBS
00003	3.4	6.9	20.7	51.7	27.6	29
06009	.0	.0	17.2	44.8	37.9	29
12015	.0	.0	17.5	37.5	45.0	40
18021	3.2	3.2	12.9	38.7	48.4	31
TOT	2	3	22	55	52	129
PCT	1.6	2.3	17.1	42.6	40.3	100.0

TABLE 13

PERCENT FREQUENCY OF RELATIVE HUMIDITY BY TEMP

TEMP F	0-29	30-39	40-49	50-59	60-69	70-79	80-89	90-100	TOTAL OBS	PCT FREQ
70/74	.0	.0	.0	.0	1.3	.7	.0	.7	4	2.6
65/69	.0	.0	.0	1.3	1.3	2.6	5.2	8.5	29	19.0
60/64	.0	.0	.0	1.3	3.9	8.5	16.3	13.1	66	43.1
55/59	.0	.0	.0	.7	3.9	9.2	10.5	4.6	44	28.8
50/54	.0	.0	.0	1.3	1.3	1.3	.7	2.0	10	6.5
TOTAL	0	0	0	7	18	34	50	44	153	100.0
PCT	.0	.0	.0	4.6	11.8	22.2	32.7	28.8		

TABLE 14

PERCENT FREQUENCY OF WIND DIRECTION BY TEMP

	N	NE	E	SE	S	SW	W	NW	VAR	CALM
70/74	.7	.7	.0	.0	.0	.0	1.0	.3	.0	.0
65/69	5.1	7.0	.5	1.6	1.0	.3	1.6	1.8	.0	.0
60/64	10.0	8.0	4.9	5.2	7.2	2.8	3.4	1.6	.0	.0
55/59	.7	1.3	3.1	3.1	6.5	8.3	3.6	1.5	.0	.7
50/54	.7	.0	.0	.7	1.8	2.1	.7	.7	.0	.0
TOTAL	17.0	17.0	8.5	10.6	16.5	13.6	10.3	5.9	.0	.7

TABLE 15

MEANS, EXTREMES AND PERCENTILES OF TEMP (DEG F) BY HOUR

HR (GMT)	MAX	99%	95%	50%	5%	1%	MIN	MEAN	TOTAL OBS
00003	77	76	72	62	54	51	51	62.4	208
06009	77	75	71	62	55	53	52	62.3	327
12015	74	73	67	60	54	52	51	60.1	195
18021	75	73	67	58	52	50	50	59.1	323
TOT	77	74	70	61	54	52	50	60.9	1053

TABLE 16

PERCENT FREQUENCY OF RELATIVE HUMIDITY BY HOUR

HR (GMT)	0-29	30-39	40-49	50-59	60-69	70-79	80-89	90-100	MEAN	TOTAL OBS
00003	.0	6.1	18.2	21.2	18.2	36.4	81	33		
06009	.0	7.5	15.0	25.0	30.0	22.5	80	40		
12015	.0	2.5	7.5	20.0	45.0	25.0	84	40		
18021	.0	2.2	8.9	22.2	31.1	35.6	84	45		
TOT	0	7	19	35	50	47	82	158		



## FEBRUARY

PERIOD: (PRIMARY) 1892-1971  
(OVER-ALL) 1857-1971

AREA 0010 TASMANIA EAST  
42.25 147.8E

TABLE 17

PCT FREQ OF AIR TEMPERATURE (DEG F) AND THE OCCURRENCE OF FOG (WITHOUT PRECIPITATION)  
VS AIR-SEA TEMPERATURE DIFFERENCE (DEG F)

AIR-SEA TMP DIF	49 52	53 55	57 60	61 64	65 68	69 72	73 76	TOT	W FDG	WO FDG
14/16	.0	.0	.0	.0	.0	.0	.1	1	.0	.1
11/13	.0	.0	.0	.1	.2	.1	.3	7	.0	.8
9/10	.0	.0	.0	.1	.2	.6	.8	15	.2	1.5
7/8	.0	.0	.0	.0	.7	1.0	.5	19	.5	1.7
6	.0	.0	.0	.2	.7	.8	.1	16	.3	1.5
5	.0	.1	.2	.2	1.1	.6	.2	22	.2	2.3
4	.0	.1	.0	.9	1.8	.8	.1	33	.8	2.9
3	.0	.0	.6	1.7	2.2	.5	.2	45	1.2	3.9
2	.1	.0	.7	1.6	2.2	.5	.0	44	1.0	4.0
1	.0	.2	.8	4.4	3.2	.1	.0	77	1.7	7.0
0	.0	.2	2.2	5.8	2.7	.1	.0	97	1.5	9.5
-1	.1	.6	4.3	5.1	.7	.0	.0	95	.9	9.9
-2	.1	1.7	6.1	3.1	.5	.0	.0	101	1.2	10.2
-3	.2	2.5	4.5	2.5	.9	.0	.0	91	1.2	9.1
-4	.0	2.6	5.1	.9	.2	.0	.0	78	1.1	7.7
-5	.2	2.8	2.3	.6	.1	.0	.0	53	.7	5.3
-6	.0	1.8	1.0	.0	.0	.0	.0	25	.2	2.6
-7/-8	1.2	3.1	1.5	.0	.0	.0	.0	51	.8	5.0
-9/-10	.5	1.0	.0	.0	.0	.0	.0	13	.0	1.5
TOTAL	22	148	258	240	150	44	21	883	121	762
PCT	2.5	16.8	29.2	27.2	17.0	5.0	2.4	100.0	13.7	86.3

PERIOD: (OVER-ALL) 1963-1971

TABLE 18

PCT FREQ OF WIND SPEED (KTS) AND DIRECTION VERSUS SEA HEIGHTS (FT)

HGT	1-3	4-10	11-21	22-33	34-47	48+	PCT	1-3	4-10	11-21	22-33	34-47	48+	PCT
<1	1.0	.0	.0	.0	.0	.0	1.0	.0	.0	.0	.0	.0	.0	.0
1-2	.0	3.6	.0	.0	.0	.0	3.6	.0	1.9	.0	.0	.0	.0	1.9
3-4	.0	1.9	1.3	.0	.0	.0	3.2	.0	1.9	3.9	1.3	.0	.0	7.1
5-6	.0	.0	3.2	.0	.0	.0	3.2	.0	.0	2.9	1.3	.0	.0	4.2
7	.0	.0	.0	.0	.0	.0	.0	.0	.0	1.3	.0	.0	.0	1.3
8-9	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	1.3	.0	.0	1.3
10-11	.0	.0	1.3	1.3	.0	.0	2.6	.0	.0	.0	.0	.0	.0	.0
12	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
13-16	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
17-19	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
20-22	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
23-25	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
26-32	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
33-40	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
41-48	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
49-60	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
61-70	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
71-86	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
87+	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
TOT PCT	1.0	5.5	5.8	1.3	.0	.0	13.6	.0	3.9	8.1	3.9	.0	.0	15.9

HGT	1-3	4-10	11-21	22-33	34-47	48+	PCT	1-3	4-10	11-21	22-33	34-47	48+	PCT
<1	.0	.0	.0	.0	.0	.0	.0	.0	1.3	.0	.0	.0	.0	1.3
1-2	.0	2.3	2.3	.0	.0	.0	4.5	.0	.0	1.6	.0	.0	.0	1.6
3-4	.0	.0	2.6	.0	.0	.0	2.6	.0	2.6	2.9	.0	.0	.0	5.5
5-6	.0	.0	1.0	.0	.0	.0	1.0	.0	.0	1.6	.0	.0	.0	1.6
7	.0	.0	.0	.0	.0	.0	.0	.0	.0	1.3	1.3	.0	.0	2.6
8-9	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
10-11	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
12	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
13-16	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
17-19	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
20-22	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
23-25	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
26-32	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
33-40	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
41-48	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
49-60	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
61-70	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
71-86	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
87+	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
TOT PCT	.0	2.3	5.8	.0	.0	.0	8.1	.0	3.9	7.5	1.3	.0	.0	12.7

PERIOD: (OVER-ALL) 1963-1971

FEBRUARY

AREA 0010 TASMANIA EAST

TABLE 18 (CONT)

42.25 147.8E

PCT FREQ OF WIND SPEED (KTS) AND DIRECTION VERSUS SEA HEIGHTS (FT)

HGT	1-3	4-10	11-21	22-33	34-47	48+	PCT	1-3	4-10	11-21	22-33	34-47	48+	PCT	TOT PCT
<1	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
1-2	.0	.0	2.6	.0	.0	.0	2.6	.0	1.3	.0	.0	.0	.0	1.3	.0
3-4	.0	1.3	3.6	1.0	.0	.0	5.8	.0	.0	1.3	1.9	.0	.0	3.2	.0
5-6	.0	.0	5.8	.0	.0	.0	5.8	.0	.0	3.2	.0	.0	.0	3.2	.0
7	.0	.0	.0	.0	.0	.0	.0	.0	.0	1.3	1.3	1.3	.0	3.9	.0
8-9	.0	1.3	.0	.0	.0	.0	1.3	.0	.0	.0	.0	.0	.0	.0	.0
10-11	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
12	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
13-16	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
17-19	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
20-22	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	1.3	.0	1.3	.0
23-25	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
26-32	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
33-40	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
41-48	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
49-60	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
61-70	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
71-86	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
87+	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
TOT PCT	.0	2.6	12.0	1.0	.0	.0	15.6	.0	1.3	5.8	3.2	2.6	.0	13.0	.0

HGT	1-3	4-10	11-21	22-33	34-47	48+	PCT	1-3	4-10	11-21	22-33	34-47	48+	PCT	TOT PCT
<1	.0	.0	.0	.0	.0	.0	.0	.3	.0	.0	.0	.0	.0	.3	.0
1-2	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
3-4	.0	.0	.0	2.3	.0	.0	2.3	.0	1.3	.0	2.6	.0	.0	3.9	.0
5-6	.0	.0	1.3	.0	.0	.0	1.3	.0	.0	.3	.0	.0	.0	1.3	.0
7	.0	.0	.0	3.2	.0	.0	3.2	.0	.0	.0	1.9	.0	.0	1.9	.0
8-9	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
10-11	.0	.0	1.3	.0	2.6	1.3	5.2	.0	.0	.0	.0	.0	.0	.0	.0
12	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
13-16	.0	.0	.0	1.3	.0	.0	1.3	.0	.0	.0	.0	.0	.0	.0	.0
17-19	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
20-22	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
23-25	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
26-32	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
33-40	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
41-48	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
49-60	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
61-70	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
71-86	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
87+	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
TOT PCT	.0	.0	2.6	6.8	2.6	1.3	13.3	.3	1.3	.3	4.5	.0	.0	6.5	98.7

WIND SPEED (KTS) VS SEA HEIGHT (FT)

HGT	0-3	4-10	11-21	22-33	34-47	48+	PCT	TOT DBS
<1	7.4	1.2	.0	.0	.0	.0	8.6	.0
1-2	.0	8.6	6.2	.0	.0	.0	14.8	.0
3-4	.0	8.6	14.8	8.6	.0	.0	32.1	.0
5-6	.0	.0	18.5	1.2	.0	.0	19.8	.0
7	.0	.0	3.7	7.4	1.2	.0	12.3	.0
8-9	.0	1.2	.0	1.2	.0	.0	2.5	.0
10-11	.0	.0	2.5	1.2	2.5	1.2	7.4	.0
12	.0	.0	.0	.0	.0	.0	.0	.0
13-16	.0	.0	.0	1.2	.0	.0	1.2	.0
17-19	.0	.0	.0	.0	.0	.0	.0	.0
20-22	.0	.0	.0	.0	1.2	.0	1.2	.0
23-25	.0	.0	.0	.0	.0	.0	.0	.0
26-32	.0	.0	.0	.0	.0	.0	.0	.0
33-40	.0	.0	.0	.0	.0	.0	.0	.0
41-48	.0	.0	.0	.0	.0	.0	.0	.0
49-60	.0	.0	.0	.0	.0	.0	.0	.0
61-70	.0	.0	.0	.0	.0	.0	.0	.0
71-86	.0	.0	.0	.0	.0	.0	.0	.0
87+	.0	.0	.0	.0	.0	.0	.0	.0
TOT PCT	7.4	19.8	45.7	21.0	4.9	1.2	100.0	81

PERIOD: (OVER-ALL) 1952-1971

TABLE 19

PERCENT FREQUENCY OF WAVE HEIGHT (FT) VS WAVE PERIOD (SECONDS)

PERIOD (SEC)	<1	1-2	3-4	5-6	7	8-9	10-11	12	13-16	17-19	20-22	23-25	26-32	33-40	41-48	49-60	61-70	71-86	87+	TOTAL	MEAN HGT
<6	.9	5.2	12.9	8.6	.9	.0	3.4	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	37	4
6-7	.0	2.6	6.0	9.5	5.2	.9	1.7	5.2	2.6	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	39	7
8-9	.0	3.4	1.7	2.6	3.4	6.0	1.7	1.7	1.7	.0	.9	.0	.0	.0	.0	.0	.0	.0	.0	27	8
10-11	.0	.0	.0	.0	.0	.0	1.7	.0	2.6	.9	.0	.0	.0	.0	.0	.0	.0	.0	.0	5	13
12-13	.0	.0	.0	.0	.0	.0	.9	.9	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	2	11
>13	.0	.0	.0	.0	.0	.0	.0	.0	.0	.9	.0	.0	.0	.0	.0	.0	.0	.0	.0	1	18
INDET	1.7	.0	1.7	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	4	2
TOTAL	3	13	26	24	11	8	11	9	8	2	1	0	0	0	0	0	0	0	0	115	6
PCT	2.6	11.2	22.4	20.7	9.5	6.9	9.5	7.8	6.9	1.7	.9	.0	.0	.0	.0	.0	.0	.0	.0	100.0	

PERIOD: (PRIMARY) 1888-1972  
(OVER-ALL) 1857-1972

MARCH

AREA 0010 TASMANIA EAST  
42.35 147.9E

TABLE 1

PERCENT FREQUENCY OF WEATHER OCCURRENCE BY WIND DIRECTION

WIND DIR	PRECIPITATION TYPE							OTHER WEATHER PHENOMENA							
	RAIN	RAIN SHWR	DRZL	FRZG PCPN	SNOW	OTHER FRZN PCPN	HAIL	PCPN AT OB TIME	PCPN PAST HOUR	THDR LTNG	FOG WD PCPN	FOG WD PCPN PAST HR	SMOKE HAZE	SPRAY BLWG DUST	NO SIG WEA
N	4.7	3.8	.0	.0	.0	.0	.0	8.5	.0	2.5	7.6	.0	2.5	.0	81.3
NE	.8	9.2	.0	.0	.0	.0	.0	9.9	.0	1.5	6.9	.0	.0	.0	81.7
E	.0	.0	.0	.0	.0	.0	.0	.0	2.4	.0	17.9	.0	.0	.0	79.7
SE	7.2	5.4	1.2	.0	.0	.0	.0	13.8	1.5	1.2	3.6	.0	.0	.0	81.1
S	7.1	7.4	1.2	.0	.0	.0	.6	16.3	.9	2.5	4.3	.0	.0	.0	78.5
SW	1.9	16.2	.0	.0	.0	.0	1.2	19.3	.2	.8	2.3	.0	.2	.0	77.9
W	.7	14.3	1.5	.0	.0	.0	.0	16.5	.0	1.0	1.5	.0	.7	.0	80.2
NW	.9	6.5	2.2	.0	.0	.0	.0	9.5	.0	.0	3.5	.0	.0	.0	87.0
VAR	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
CALM	.0	.0	33.3	.0	.0	.0	.0	33.3	.0	.0	.0	.0	.0	.0	66.7
TOT PCT	3.0	8.8	1.0	.0	.0	.0	.3	13.0	.4	1.2	4.7	.0	.5	.0	81.0
TOT OBS:	728														

TABLE 2

PERCENT FREQUENCY OF WEATHER OCCURRENCE BY HOUR

HOUR (GMT)	PRECIPITATION TYPE							OTHER WEATHER PHENOMENA							
	RAIN	RAIN SHWR	DRZL	FRZG PCPN	SNOW	OTHER FRZN PCPN	HAIL	PCPN AT OB TIME	PCPN PAST HOUR	THDR LTNG	FOG WD PCPN	FOG WD PCPN PAST HR	SMOKE HAZE	SPRAY BLWG DUST	NO SIG WEA
00003	1.6	6.2	.0	.0	.0	.0	.0	7.8	.8	.8	6.2	.0	1.6	.0	83.7
06009	2.3	8.2	1.2	.0	.0	.0	.0	11.7	.4	1.2	5.1	.0	.8	.0	82.1
12015	5.7	6.3	1.1	.0	.0	.0	.6	13.8	.0	2.3	2.9	.0	.0	.0	82.2
18021	2.0	11.8	1.2	.0	.0	.0	.4	15.4	.4	.4	5.9	.0	.0	.0	78.3
TOT PCT	2.8	8.6	1.0	.0	.0	.0	.2	12.7	.4	1.1	5.0	.0	.5	.0	81.2
TOT OBS:	814														

TABLE 3

PERCENTAGE FREQUENCY OF WIND DIRECTION BY SPEED AND BY HOUR

WIND DIR	WIND SPEED (KNOTS)							48+	TOTAL OBS	PCT FREQ	MEAN SPD	HOUR (GMT)							
	0-3	4-10	11-21	22-33	34-47	00	03					06	09	12	15	18	21		
N	1.9	7.4	6.2	1.6	.0	.0	17.2	11.5	.0	19.6	14.5	16.9	20.0	17.7	17.7	18.3			
NE	1.8	5.6	2.5	.6	.0	.0	10.5	9.2	6.0	8.0	11.7	12.8	8.8	11.8	12.2	7.7			
E	.3	3.7	.9	.1	.0	.0	5.0	7.7	3.6	5.8	6.8	4.1	6.3	2.8	5.8	3.4			
SE	2.1	6.3	1.9	.4	.0	.0	10.7	7.9	4.8	11.0	20.8	13.5	10.0	7.3	7.7	1.9			
S	.7	4.7	3.3	1.3	.4	.0	10.5	13.0	13.1	9.8	8.6	12.4	20.6	14.2	4.7	11.1			
SW	1.0	6.1	4.6	3.0	1.4	.1	16.2	15.9	29.8	16.4	16.3	17.7	10.0	16.3	15.7	13.9			
W	1.0	4.3	5.4	2.3	.2	.0	13.2	14.0	19.0	13.3	9.1	10.5	6.9	14.2	18.0	15.9			
NW	3.6	6.0	4.4	1.2	.2	.0	15.4	10.3	23.8	15.3	10.8	10.5	12.5	14.0	16.8	26.9			
VAR	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0			
CALM	1.4						1.4	.0	.0	.6	1.4	1.5	5.0	1.6	1.4	1.0			
TOT OBS	120	384	255	91	19	1	870	11.5		21	163	143	133	40	123	143	104		
TOT PCT	13.8	44.1	29.3	10.5	2.2	.1		100.0			100.0	100.0	100.0	100.0	100.0	100.0	100.0		

TABLE 3A

WIND DIR	WIND SPEED (KNOTS)					41+	TOTAL OBS	PCT FREQ	MEAN SPD	HOUR (GMT)				
	0-6	7-16	17-27	28-40						00	06	12	18	21
N	4.2	8.2	4.7	.1	.0			17.2	11.5	17.4	15.7	18.3	17.9	
NE	4.4	4.2	1.9	.0	.0			10.5	9.2	7.7	12.2	11.0	10.3	
E	2.6	2.1	.3	.0	.0			5.0	7.7	5.6	5.5	3.7	4.8	
SE	5.0	5.0	.7	.0	.0			10.7	7.9	10.3	17.3	6.0	5.3	
S	2.4	5.0	2.2	.8	.0			10.5	13.0	10.2	10.4	15.8	7.4	
SW	3.9	6.0	3.4	2.0	.9			16.2	15.9	17.9	16.9	14.7	15.0	
W	3.1	4.8	4.3	.9	.1			13.2	14.0	14.0	9.8	12.4	17.1	
NW	5.7	6.1	3.1	.3	.1			15.4	10.3	16.3	10.7	13.7	21.1	
VAR	.0	.0	.0	.0	.0			.0	.0	.0	.0	.0	.0	
CALM	1.4							.0	.0	.5	1.4	2.5	1.2	
TOT OBS	285	360	180	36	9	870		1.4		184	276	163	247	
TOT PCT	32.8	41.4	20.7	4.1	1.0			100.0		100.0	100.0	100.0	100.0	

PERIOD: (PRIMARY) 1886-1972  
(OVER-ALL) 1857-1972

MARCH

AREA 0010 TASMANIA EAST  
42.35 147.9E

TABLE 4

PERCENTAGE FREQUENCY OF WIND SPEED BY HOUR (GMT)

HOUR	CALM	1-3	4-10	WIND SPEED (KNOTS)			48+	MEAN	PCT FREQ	TOTAL OBS
				11-21	22-33	34-47				
00003	.5	10.9	35.9	37.5	12.5	2.2	.5	12.8	100.0	184
06009	1.4	12.7	48.6	24.6	11.6	1.1	.0	11.0	100.0	276
12015	2.5	10.4	43.8	31.3	9.7	3.1	.0	11.9	100.0	163
18021	1.2	14.6	45.7	27.1	8.5	2.8	.0	11.0	100.0	247
TOT	12	108	384	255	91	19	1	11.5		870
PCT	1.4	12.4	44.1	29.3	10.5	2.2	.1	100.0		

TABLE 5

PCT FREQ OF TOTAL CLOUD AMOUNT (EIGHTHS)  
BY WIND DIRECTION

WIND DIR	0-2	3-4	5-7	8 & DBSCD	TOTAL OBS	MEAN CLOUD COVER
N	8.4	.6	6.8	.6		3.1
NE	4.0	1.6	2.2	2.6		4.1
E	4.0	.0	1.4	2.8		4.1
SE	1.8	.0	1.6	4.4		5.9
S	2.0	2.4	6.6	3.4		5.2
SW	3.4	3.2	6.4	3.0		4.8
W	4.6	.8	5.0	1.6		4.4
NW	4.6	1.0	6.0	.8		4.0
VAR	.0	.0	.0	.0		.0
CALM	1.6	.0	.0	.8		3.3
TOT OBS	43	12	45	25	125	4.4
TOT PCT	34.4	9.6	36.0	20.0	100.0	

TABLE 6

PERCENTAGE FREQUENCY OF CEILING HEIGHTS (FT, NH >4/8)  
AND OCCURRENCE OF NH <5/8 BY WIND DIRECTION

WIND DIR	000	150	300	600	1000	2000	3500	5000	6500	8000+	NH <5/8 ANY HGT	TOTAL OBS
N	149	299	599	999	1999	3999	4999	6499	7999		13.2	
NE	.0	.0	.0	.8	1.0	.0	.8	.0	.0	.0	.0	7.8
E	.0	.0	.0	1.4	1.4	.0	.0	.0	.0	.0	.0	5.4
SE	.0	.0	.8	1.8	1.0	.8	.0	.0	.0	.0	.8	2.6
S	.0	.0	.0	1.4	4.2	2.8	.0	.0	.0	.0	.4	5.5
SW	.0	.0	.0	1.0	3.8	.6	.4	.0	.0	.0	.4	9.8
W	.0	.0	.0	.0	.8	1.4	1.2	.4	.0	.0	.0	8.2
NW	.0	.0	.0	.8	.0	.2	2.0	.4	.0	.0	.0	9.0
VAR	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
CALM	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	2.4
TOT OBS	0	0	1	9	17	8	7	1	0	2	80	125
TOT PCT	.0	.0	.8	7.2	13.6	6.4	5.6	.8	.0	1.6	64.0	100.0

TABLE 7

CUMULATIVE PCT FREQ OF SIMULTANEOUS OCCURRENCE  
OF CEILING HEIGHT (NH >4/8) AND VSBY (NM)

CEILING (FEET)	VSBY (NM)							
	>10	>5	>2	>1	>1/2	>1/4	>50YD	>0
>6500	1.6	1.6	1.6	1.6	1.6	1.6	1.6	1.6
>3000	2.4	2.4	2.4	2.4	2.4	2.4	2.4	2.4
>3500	4.7	7.9	7.9	7.9	7.9	7.9	7.9	7.9
>2000	9.4	14.2	14.2	14.2	14.2	14.2	14.2	14.2
>1000	20.5	27.6	27.6	27.6	27.6	27.6	28.3	28.3
>500	23.6	33.1	34.6	34.6	34.6	34.6	35.4	35.4
>300	23.6	33.1	34.6	35.4	35.4	35.4	36.2	36.2
>150	23.6	33.1	34.6	35.4	35.4	35.4	36.2	36.2
>0	23.6	33.1	34.6	35.4	35.4	35.4	36.2	36.2
TOTAL	30	42	44	45	45	45	46	46

TOTAL NUMBER OF OBS: 127

PCT FREQ NH <5/8: 63.8

TABLE 7A

PERCENTAGE FREQ OF LOW CLOUDS (EIGHTHS)

0	1	2	3	4	5	6	7	8	DBSCD	TOTAL OBS
14.4	13.1	20.6	8.1	5.6	4.4	11.9	9.4	12.5	.0	160

PERIOD: (PRIMARY) 1888-1972  
(OVER-ALL) 1857-1972

MARCH

AREA 0010 TASMANIA EAST  
42.35 147.9E

TABLE 8

PERCENT FREQ OF WIND DIRECTION VS OCCURRENCE OR NON-OCCURRENCE OF  
PRECIPITATION WITH VARYING VALUES OF VISIBILITY

VSBY (NM)		N	NE	E	SE	S	SW	W	NW	VAR	CALM	PCT	TOTAL OBS
<1/2	PCP	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
	NO PCP	.0	.0	.0	.0	.3	.1	.0	.1	.0	.0	.5	
	TOT %	.0	.0	.0	.0	.3	.1	.0	.1	.0	.0	.5	
1/2<1	PCP	.0	.0	.0	.0	.0	.1	.1	.0	.0	.0	.1	
	NO PCP	1.0	.5	.8	.4	.2	.3	.2	.5	.0	.0	4.0	
	TOT %	1.0	.5	.8	.4	.2	.3	.3	.5	.0	.0	4.1	
1<2	PCP	.1	.1	.0	.1	.0	.0	.0	.0	.0	.0	.4	
	NO PCP	.3	.0	.0	.0	.0	.0	.0	.0	.0	.0	.3	
	TOT %	.4	.1	.0	.1	.0	.0	.0	.0	.0	.0	.7	
2<5	PCP	.1	.1	.0	.0	.0	.3	.0	.1	.0	.0	.5	
	NO PCP	.6	.5	.1	.0	.1	.1	.0	.0	.0	.0	1.4	
	TOT %	.7	.5	.1	.0	.1	.3	.0	.1	.0	.0	1.9	
5<10	PCP	1.2	.7	.0	1.0	1.7	3.1	2.1	1.4	.0	.1	11.3	
	NO PCP	8.2	4.8	1.8	7.0	5.3	11.0	8.4	10.9	.0	.1	57.6	
	TOT %	9.3	5.5	1.8	8.1	7.0	14.1	10.5	12.2	.0	.3	68.8	
10+	PCP	.0	.0	.0	.4	.1	*	.1	.0	.0	.0	.7	
	NO PCP	4.7	2.2	1.5	2.4	3.5	2.8	3.0	2.9	.0	.1	23.2	
	TOT %	4.7	2.2	1.5	2.8	3.6	2.9	3.1	2.9	.0	.1	23.9	
TOT OBS													728
TOT PCT													100.0

TABLE 9

PERCENT FREQ OF WIND DIRECTION VS WIND SPEED  
WITH VARYING VALUES OF VISIBILITY

VSBY (NM)	SPD KTS	N	NE	E	SE	S	SW	W	NW	VAR	CALM	PCT	TOTAL OBS
<1/2	0-3	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
	4-10	.0	.0	.0	.0	.0	.0	.0	.1	.0	.0	.1	
	11-21	.0	.0	.0	.0	.3	.1	.0	.0	.0	.0	.4	
	22+	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
	TOT %	.0	.0	.0	.0	.3	.1	.0	.1	.0	.0	.5	
1/2<1	0-3	.6	.3	.1	.2	.0	.1	.0	.2	.0	.0	1.5	
	4-10	.4	.3	.7	.1	.1	.0	.2	.1	.0	.0	1.9	
	11-21	.0	.0	.0	.1	.1	.1	.1	.1	.0	.0	.4	
	22+	.0	.0	.0	.0	.0	.1	.0	.1	.0	.0	.3	
	TOT %	1.0	.5	.7	.4	.2	.3	.3	.5	.0	.0	4.0	
1<2	0-3	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
	4-10	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
	11-21	.3	.1	.0	.0	.0	.0	.0	.0	.0	.0	.4	
	22+	.1	.1	.0	.1	.0	.0	.0	.0	.0	.0	.3	
	TOT %	.4	.1	.0	.1	.0	.0	.0	.0	.0	.0	.7	
2<5	0-3	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
	4-10	.3	.3	.1	.0	.0	.0	.0	.0	.0	.0	.8	
	11-21	.3	.2	.0	.0	.1	.1	.0	.0	.0	.0	.7	
	22+	.0	.0	.0	.0	.0	.3	.0	.1	.0	.0	.4	
	TOT %	.7	.5	.1	.0	.1	.3	.0	.1	.0	.0	1.9	
5<10	0-3	1.5	1.3	.3	1.6	.8	.8	1.1	3.2	.0	.3	10.7	
	4-10	5.4	3.2	1.2	5.3	2.6	5.2	4.0	5.6	.0	.0	32.5	
	11-21	2.0	.9	.3	1.0	1.9	3.9	3.4	2.7	.0	.0	16.0	
	22+	1.0	.3	.1	.1	1.6	4.1	1.9	1.0	.0	.0	10.2	
	TOT %	9.9	5.7	1.9	8.0	7.0	13.9	10.3	12.5	.0	.3	69.4	
10+	0-3	.1	.3	.1	.2	.0	.1	.1	.5	.0	.1	1.6	
	4-10	1.5	1.2	1.2	1.5	2.2	1.5	.5	.5	.0	.0	10.2	
	11-21	2.6	.5	.2	.9	1.1	.9	1.9	1.6	.0	.0	9.8	
	22+	.3	.1	.0	.1	.3	.3	.5	.2	.0	.0	1.9	
	TOT %	4.6	2.2	1.5	2.8	3.6	2.8	3.1	2.9	.0	.1	23.5	
TOT OBS													745
TOT PCT													100.0



PERIOD: (PRIMARY) 1888-1972  
(OVER-ALL) 1857-1972

MARCH

AREA 0010 TASMANIA EAST  
42.35 147.9E

TABLE 10

PERCENT FREQUENCY OF CEILING HEIGHTS (FEET, NH >4/8) AND  
OCCURRENCE OF NH <5/8 BY HOUR

HR (GMT)	000 149	150 299	300 599	600 999	1000 1999	2000 3499	3500 4999	5000 6499	6500 7999	8000+	TOTAL	NH <5/8 ANY HGT	TOTAL OBS
00003	.0	.0	.0	.0	20.0	.0	10.0	.0	.0	3.3	33.3	66.7	30
06009	.0	.0	.0	8.8	.0	2.9	2.9	.0	.0	2.9	17.6	82.4	34
12015	.0	.0	2.3	7.0	16.3	11.6	4.7	.0	.0	.0	41.9	58.1	43
18021	.0	.0	.0	7.9	13.2	5.3	2.6	2.6	.0	.0	31.6	68.4	38
TOT	0	0	1	9	18	8	7	1	0	2	46	99	145
PCT	.0	.0	.7	6.2	12.4	5.5	4.8	.7	.0	1.4	31.7	68.3	100.0

TABLE 11

PERCENT FREQUENCY VSBY (NM) BY HOUR

HR (GMT)	<1/2	1/2<1	1<2	2<5	5<10	10+	TOTAL OBS
00003	.7	6.6	.7	.7	64.7	26.5	136
06009	.8	3.4	1.1	3.0	72.8	18.9	265
12015	.0	2.9	.6	2.9	68.0	25.7	175
18021	1.2	5.1	.0	.8	74.2	18.8	256
TOT	6	36	5	16	590	179	832
PCT	.7	4.3	.6	1.9	70.9	21.5	100.0

TABLE 12

CUMULATIVE PCT FREQ OF RANGES OF VSBY (NM) AND/OR  
CEILING HGT (FEET, NH >4/8), BY HOUR

HR (GMT)	<150 <50YD	<600 <1	<1000 <5	1000+ AND5+	NH <5/8 AND 5+	TOTAL OBS
00003	.0	.0	.0	43.5	56.5	23
06009	.0	.0	11.5	11.5	76.9	26
12015	.0	2.4	12.2	34.1	53.7	41
18021	.0	2.7	10.8	21.6	67.6	37
TOT	0	2	12	35	80	127
PCT	.0	1.6	9.4	27.6	63.0	100.0

TABLE 13

PERCENT FREQUENCY OF RELATIVE HUMIDITY BY TEMP

TEMP F	0-29	30-39	40-49	50-59	60-69	70-79	80-89	90-100	TOTAL OBS	PCT FREQ
70/74	.0	.0	.0	.6	.6	.6	.6	.0	4	2.3
65/69	.0	.0	.0	.0	1.1	2.3	.6	1.7	10	5.7
60/64	.0	.0	.6	2.3	4.0	11.4	13.7	8.6	71	40.6
55/59	.0	.0	.6	.6	9.1	12.0	9.7	5.7	65	37.1
50/54	.0	.0	.0	1.1	2.9	4.0	2.3	3.4	24	13.7
45/49	.0	.0	.0	.0	.0	.0	.0	.6	1	.6
TOTAL	0	0	1	8	31	53	47	35	175	100.0
PCT	.0	.0	.6	4.6	17.7	30.3	26.9	20.0		

TABLE 14

PERCENT FREQUENCY OF WIND DIRECTION BY TEMP

	N	NE	E	SE	S	SW	W	NW	VAR	CALM
70/74	.9	.3	.6	.0	.0	.0	.0	.6	.0	.0
65/69	3.4	.7	.4	.0	.0	.0	.0	1.1	.0	.0
60/64	12.3	6.3	3.4	3.1	4.0	3.4	2.1	5.3	.0	.6
55/59	2.4	2.1	1.1	4.7	5.3	10.1	6.7	3.4	.0	1.1
50/54	.0	.1	.4	1.7	3.0	3.4	4.4	.6	.0	.0
45/49	.0	.0	.0	.0	.0	.6	.0	.0	.0	.0
TOTAL	19.0	9.6	6.0	9.6	12.3	17.6	13.3	11.0	.0	1.7

TABLE 15

MEANS, EXTREMES AND PERCENTILES OF TEMP (DEG F) BY HOUR

HR (GMT)	MAX	99%	95%	50%	5%	1%	MIN	MEAN	TOTAL OBS
00003	75	73	69	60	53	49	46	60.4	190
06009	75	73	69	60	52	49	46	60.5	288
12015	73	69	66	59	51	47	43	58.8	188
18021	76	70	65	58	49	48	44	57.5	282
TOT	76	73	68	59	51	48	43	59.3	948

TABLE 16

PERCENT FREQUENCY OF RELATIVE HUMIDITY BY HOUR

HR (GMT)	0-29	30-39	60-69	70-79	80-89	90-100	MEAN	TOTAL OBS
00003	.0	9.4	21.9	37.5	25.0	6.3	74	32
06009	.0	7.0	18.6	30.2	23.5	20.9	78	43
12015	.0	3.9	15.7	27.5	23.5	29.4	81	51
18021	.0	3.8	15.1	30.2	32.1	18.9	80	53
TOT	0	10	31	55	47	86	79	179

PERIOD: (PRIMARY) 1888-1972  
(OVER-ALL) 1857-1972

MARCH

AREA 0010 TASMANIA EAST  
42.35 147.9E

TABLE 17

PCT FREQ OF AIR TEMPERATURE (DEG F) AND THE OCCURRENCE OF FOG (WITHOUT PRECIPITATION)  
VS AIR-SEA TEMPERATURE DIFFERENCE (DEG F)

AIR-SEA TMP DIF	41 44	45 48	49 52	53 56	57 60	61 64	65 68	69 72	TOT	W FOG	NO FOG
11/13	.0	.0	.0	.0	.0	.0	.0	.1	1	.0	.1
9/10	.0	.0	.0	.0	.3	.1	.0	.5	7	.0	.9
7/8	.0	.0	.0	.0	.0	.1	1.0	.4	12	.1	1.4
6	.0	.0	.0	.0	.1	.3	.3	.6	10	.0	1.3
5	.0	.0	.0	.0	.1	1.0	1.2	.3	20	.4	2.2
4	.0	.0	.0	.1	.6	2.2	1.0	.0	31	.3	3.7
3	.0	.0	.1	.1	.5	1.4	1.2	.0	26	.1	3.2
2	.0	.0	.0	.6	2.4	2.6	1.7	.3	59	.4	7.2
1	.0	.0	.0	.1	2.7	4.9	1.0	.0	68	.6	8.1
0	.0	.0	.1	.9	5.5	5.4	.3	.0	95	1.2	11.1
-1	.0	.0	.1	2.1	5.0	4.2	.1	.0	90	.4	11.2
-2	.0	.0	.0	2.4	5.5	2.8	.0	.0	84	.1	10.7
-3	.0	.0	.6	1.9	4.1	1.3	.0	.0	62	.4	7.6
-4	.0	.0	.3	3.2	3.3	.8	.0	.0	59	.4	7.2
-5	.0	.0	1.2	3.5	1.9	.1	.0	.0	52	.4	6.3
-6	.0	.0	1.3	2.6	.3	.0	.0	.0	32	.3	3.9
-7/-8	.0	.5	1.9	3.2	.4	.1	.0	.0	48	.1	6.0
-9/-10	.0	.1	1.5	.3	.0	.0	.0	.0	15	.0	1.9
-11/-13	.1	.3	.4	.0	.0	.0	.0	.0	6	.0	.8
-14/-16	.0	.1	.0	.0	.0	.0	.0	.0	1	.0	.1
TOTAL	1	8	59	164	256	213	60	17	778	4.0	738
PCT	.1	1.0	7.6	21.1	32.9	27.4	7.7	2.2	100.0	5.1	94.9

PERIOD: (OVER-ALL) 1963-1972

TABLE 18

PCT FREQ OF WIND SPEED (KTS) AND DIRECTION VERSUS SEA HEIGHTS (FT)

HGT	1-3	4-10	11-21	22-33	34-47	48+	PCT	1-3	4-10	11-21	22-33	34-47	48+	PCT
<1	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
1-2	.0	1.7	.9	.0	.0	.0	2.6	.0	2.0	.3	.0	.0	.0	2.3
3-4	.0	.0	8.2	.9	.0	.0	9.1	.0	.3	.0	.0	.0	.0	.3
5-6	.0	.9	2.3	.9	.0	.0	4.0	.0	.3	1.1	.0	.0	.0	1.4
7	.0	.0	1.1	1.1	.0	.0	2.3	.0	.0	.0	.0	.0	.0	.0
8-9	.0	.0	.0	.0	.0	.0	.0	.0	.0	.3	.0	.0	.0	.3
10-11	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
12	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
13-16	.0	.0	.0	.9	.0	.0	.9	.0	.0	.0	.0	.0	.0	.0
17-19	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
20-22	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
23-25	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
26-32	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
33-40	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
41-48	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
49-60	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
61-70	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
71-86	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
87+	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
TOT PCT	.0	2.6	12.5	3.7	.0	.0	18.8	.0	2.6	1.7	.0	.0	.0	4.3

HGT	1-3	4-10	11-21	22-33	34-47	48+	PCT	1-3	4-10	11-21	22-33	34-47	48+	PCT
<1	.0	1.1	.0	.0	.0	.0	1.1	.0	.0	.0	.0	.0	.0	.0
1-2	.0	2.8	.9	.0	.0	.0	3.7	.0	2.8	.0	.0	.0	.0	2.8
3-4	.0	2.0	.0	.0	.0	.0	2.0	.0	2.3	5.7	.0	.0	.0	8.0
5-6	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
7	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
8-9	.0	.0	1.7	.0	.0	.0	1.7	.0	.0	.3	1.1	.0	.0	1.4
10-11	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
12	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
13-16	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
17-19	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
20-22	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
23-25	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
26-32	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
33-40	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
41-48	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
49-60	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
61-70	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
71-86	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
87+	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
TOT PCT	.0	6.0	2.6	.0	.0	.0	8.5	.0	5.1	6.0	1.1	.0	.0	12.2

PERIOD: (OVER-ALL) 1963-1972

MARCH

AREA 0010 TASMANIA EAST  
42.35 147.9E

TABLE 18 (CONT)

PCT FREQ OF WIND SPEED (KTS) AND DIRECTION VERSUS SEA HEIGHTS (FT)

HGT	S							SW							PCT
	1-3	4-10	11-21	22-33	34-47	48+	PCT	1-3	4-10	11-21	22-33	34-47	48+	PCT	
<1	.0	.0	.0	.0	.0	.0	.0	.0	1.1	.0	.0	.0	.0	.0	1.1
1-2	.0	2.0	2.3	.0	.0	.0	4.3	.0	5.7	.0	.0	.0	.0	.0	5.7
3-4	.0	8.0	1.1	.0	.0	.0	9.1	.0	2.6	.0	.0	.0	.0	.0	2.6
5-6	.0	.0	1.1	.0	.0	.0	1.1	.0	.0	2.3	.0	.0	.0	.0	2.3
7	.0	.0	.9	1.1	.9	.0	2.8	.0	.0	.3	.0	.3	.0	.0	.6
8-9	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	1.1	1.1	.0	.0	2.3
10-11	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	1.1	.0	.0	.0	1.1
12	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
13-16	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
17-19	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
20-22	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
23-25	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
26-32	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
33-40	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
41-48	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
49-60	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
61-70	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
71-86	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
87+	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
TOT PCT	.0	9.9	5.4	1.1	.9	.0	17.3	.0	9.4	2.6	2.3	1.4	.0	.0	15.6

HGT	W							NW							PCT	TOTAL PCT
	1-3	4-10	11-21	22-33	34-47	48+	PCT	1-3	4-10	11-21	22-33	34-47	48+	PCT		
<1	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
1-2	.0	1.1	.0	.0	.0	.0	1.1	.0	.0	2.6	.0	.0	.0	.0	2.6	.0
3-4	.0	.9	3.1	.0	.0	.0	4.0	.0	1.1	5.7	.3	.0	.0	.0	7.1	.0
5-6	.0	.0	1.1	.0	.0	.0	1.1	.0	.0	.0	.3	.0	.0	.0	.3	.0
7	.0	.0	1.1	1.1	.0	.0	2.3	.0	.0	.0	.0	.0	.0	.0	.0	.0
8-9	.0	.0	.0	.0	.0	.0	.0	.0	.0	1.1	.0	.0	.0	.0	1.1	.0
10-11	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
12	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
13-16	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
17-19	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
20-22	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
23-25	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
26-32	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
33-40	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
41-48	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
49-60	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
61-70	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
71-86	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
87+	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
TOT PCT	.0	2.0	5.4	1.1	.0	.0	8.5	.0	1.1	9.4	.9	.0	.0	.0	11.4	96.6

WIND SPEED (KTS) VS SEA HEIGHT (FT)

HGT	0-3	4-10	11-21	22-33	34-47	48+	PCT	TOT OBS
<1	4.5	2.2	.0	.0	.0	.0	6.7	
1-2	.0	18.0	6.7	.0	.0	.0	24.7	
3-4	.0	16.9	23.6	1.1	.0	.0	41.6	
5-6	.0	.0	1.1	7.9	1.1	.0	10.1	
7	.0	.0	3.4	3.4	1.1	.0	7.9	
8-9	.0	.0	3.4	2.2	1.1	.0	6.7	
10-11	.0	.0	.0	1.1	.0	.0	1.1	
12	.0	.0	.0	.0	.0	.0	.0	
13-16	.0	.0	.0	1.1	.0	.0	1.1	
17-19	.0	.0	.0	.0	.0	.0	.0	
20-22	.0	.0	.0	.0	.0	.0	.0	
23-25	.0	.0	.0	.0	.0	.0	.0	
26-32	.0	.0	.0	.0	.0	.0	.0	
33-40	.0	.0	.0	.0	.0	.0	.0	
41-48	.0	.0	.0	.0	.0	.0	.0	
49-60	.0	.0	.0	.0	.0	.0	.0	
61-70	.0	.0	.0	.0	.0	.0	.0	
71-86	.0	.0	.0	.0	.0	.0	.0	
87+	.0	.0	.0	.0	.0	.0	.0	
TOT PCT	4.5	38.2	44.9	10.1	2.2	.0	100.0	89

PERIOD: (OVER-ALL) 1952-1972

TABLE 19

PERCENT FREQUENCY OF WAVE HEIGHT (FT) VS WAVE PERIOD (SECONDS)

PERIOD (SEC)	<1	1-2	3-4	5-6	7	8-9	10-11	12	13-16	17-19	20-22	23-25	26-32	33-40	41-48	49-60	61-70	71-86	87+	TOTAL	MEAN HGT
<5	.0	9.0	10.7	7.4	3.3	1.6	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	39
6-7	.0	4.9	6.6	10.7	6.6	.0	3.3	.0	.8	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	40
8-9	.0	.0	6.6	2.5	4.1	3.3	.0	.8	1.6	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	23
10-11	.0	1.6	.0	.8	.0	.8	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	5
12-13	.0	.0	.0	.0	.8	.0	2.5	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	4
>13	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	0
INDET	1.6	.8	2.5	2.5	.8	.8	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	11
TOTAL	2	20	32	29	19	8	8	1	3	0	0	0	0	0	0	0	0	0	0	0	122
PCT	1.6	16.4	26.2	23.8	15.6	6.6	6.6	.8	2.5	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	100.0

PERIOD: (PRIMARY) 1888-1973  
(OVER-ALL) 1871-1973

APRIL

AREA 0010 TASMANIA EAST  
42.5S 147.7E

TABLE 1

PERCENT FREQUENCY OF WEATHER OCCURRENCE BY WIND DIRECTION

WIND DIR	PRECIPITATION TYPE							OTHER WEATHER PHENOMENA							
	RAIN	RAIN SHWR	DRZL	FRZG PCPN	SNOW	OTHER FRZN PCPN	HAIL	PCPN AT DB TIME	PCPN PAST HOUR	THDR LTNG	FGG WD PCPN	FGG WD PCPN PAST HR	SMOKE HAZE	SPRAY BLWG SNOW	ND DUST SIG WEA
N	1.2	4.0	.8	.0	.0	.0	.0	6.0	.0	1.4	4.0	.0	1.6	.0	87.8
NE	4.2	3.6	.0	.0	.0	.0	.0	7.9	.0	.3	4.2	.0	.0	.0	87.6
E	4.1	4.1	.0	.0	.0	.0	.0	8.1	.0	.0	6.8	.0	.0	.0	85.1
SE	10.0	4.8	1.9	.0	.0	.0	.0	16.7	1.9	.0	6.7	.0	.0	.0	74.8
S	2.8	15.1	7.5	.0	.0	.0	.0	25.5	1.3	.0	3.8	.0	.0	.0	69.5
SW	.9	18.2	1.8	.0	.0	.0	.0	21.0	.9	.0	5.1	.0	.9	.0	72.1
W	1.5	10.6	.0	.0	.0	.0	.0	12.1	.0	1.5	.8	.0	.0	.0	86.3
NW	2.0	4.3	.5	.0	.0	.0	.0	6.8	1.0	1.5	2.0	.0	.0	.0	89.2
VAR	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
CALM	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	33.3	.0	.0	.0	66.7
TOT PCT	2.6	8.1	1.3	.0	.0	.0	.0	12.0	.6	.9	3.5	.0	.4	.0	83.0
TOT OBS:	817														

TABLE 2

PERCENT FREQUENCY OF WEATHER OCCURRENCE BY HOUR

HOUR (GMT)	PRECIPITATION TYPE							OTHER WEATHER PHENOMENA							
	RAIN	RAIN SHWR	DRZL	FRZG PCPN	SNOW	OTHER FRZN PCPN	HAIL	PCPN AT DB TIME	PCPN PAST HOUR	THDR LTNG	FGG WD PCPN	FGG WD PCPN PAST HR	SMOKE HAZE	SPRAY BLWG SNOW	ND DUST SIG WEA
00003	3.2	7.7	1.3	.0	.0	.0	.0	12.3	.6	.0	4.5	.0	.0	.0	82.6
06009	2.4	7.1	1.7	.0	.0	.0	.0	11.2	.7	1.4	5.1	.0	.3	.0	82.0
12015	2.7	7.7	.5	.0	.0	.0	.5	11.5	1.1	1.6	3.3	.0	.0	.0	83.0
18021	3.2	8.0	1.6	.0	.0	.0	.0	12.8	.0	.6	2.9	.0	.6	.0	83.7
TOT PCT	2.9	7.6	1.4	.0	.0	.0	.1	12.0	.5	1.0	3.9	.0	.3	.0	82.8
TOT OBS:	944														

TABLE 3

PERCENTAGE FREQUENCY OF WIND DIRECTION BY SPEED AND BY HOUR

WIND DIR	WIND SPEED (KNOTS)							TOTAL DBS	PCT FREQ	MEAN SPD	HOUR (GMT)							
	0-3	4-10	11-21	22-33	34-47	48+					00	03	06	09	12	15	18	21
N	2.3	7.8	5.0	.9	.1	.0		16.1	10.3		24.1	19.4	10.2	14.1	15.4	16.2	16.2	19.1
NE	3.1	5.0	1.4	.3	.0	.0		9.8	7.4		.9	12.4	12.3	10.2	5.1	10.2	8.2	8.1
E	1.1	2.7	.9	.0	.0	.0		4.8	6.9		.0	3.5	7.9	6.3	10.9	4.2	3.3	2.8
SE	1.4	3.3	1.2	.2	.0	.1		6.2	8.5		11.1	2.9	11.0	7.3	10.9	2.8	5.4	4.9
S	.7	4.2	2.9	1.5	.0	.1		9.4	12.9		7.4	7.4	11.6	12.1	3.8	14.4	7.5	7.3
SW	2.2	5.4	2.8	1.8	1.1	.1		13.4	13.7		13.0	13.5	15.3	14.1	14.1	14.4	11.1	12.2
W	2.8	6.8	3.7	2.1	.4	.0		15.7	11.2		29.6	15.9	14.0	14.6	12.2	10.6	19.4	16.7
NW	4.6	11.8	5.6	2.2	.0	.0		24.2	9.5		13.9	25.0	17.7	20.4	25.0	26.4	28.9	28.9
VAR	.0	.0	.0	.0	.0	.0		.0	.0		.0	.0	.0	.0	.0	.0	.0	.0
CALM	.3							.3	.0		.0	.0	.0	1.0	2.6	.9	.0	.0
TOT DBS	152	412	207	79	15	3	878		10.4		27	170	155	103	39	108	153	123
TOT PCT	18.5	46.9	23.6	9.0	1.7	.3		100.0			100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0

TABLE 3A

WIND DIR	WIND SPEED (KNOTS)					TOTAL DBS	PCT FREQ	MEAN SPD	HOUR (GMT)				
	0-6	7-16	17-27	28-40	41+				00	06	12	18	21
N	5.6	7.4	2.8	.3	.1			16.1	10.3	20.1	11.7	16.0	17.5
NE	5.2	3.9	.6	.1	.0			9.8	7.4	10.8	11.4	8.8	8.2
E	2.6	2.0	.1	.0	.0			4.8	6.9	3.0	7.3	6.0	3.1
SE	3.6	1.9	.4	.1	.1			6.2	8.5	4.1	9.5	4.9	5.2
S	2.6	3.3	3.1	.3	.1			9.4	12.9	7.4	11.8	11.6	7.4
SW	4.3	5.2	1.9	1.5	.5			13.4	13.7	13.5	14.8	14.3	11.6
W	6.7	5.0	2.8	1.0	.1			15.7	11.2	17.8	14.2	11.1	18.2
NW	10.9	8.8	4.0	.6	.0			24.2	9.5	23.5	18.8	26.0	28.9
VAR	.0	.0	.0	.0	.0			.0	.0	.0	.0	.0	.0
CALM	.3							.3	.0	.0	.4	1.4	.0
TOT DBS	367	330	138	35	8	878		10.4		197	258	147	276
TOT PCT	41.8	37.6	15.7	4.0	.9			100.0		100.0	100.0	100.0	100.0

APRIL

PERIOD: (PRIMARY) 1888-1973  
(QVSR-ALL) 1871-1973AREA 0010 TASMANIA EAST  
42.55 147.7E

TABLE 4

PERCENTAGE FREQUENCY OF WIND SPEED BY HOUR (GMT)

HOUR	CALM	1-3	4-10	WIND SPEED (KNOTS)			48+	MEAN	PCT FREQ	TOTAL OBS
				11-21	22-33	34-47				
00003	.0	14.7	40.6	26.9	14.2	2.5	1.0	12.7	100.0	197
06009	.4	18.2	50.0	21.3	7.4	2.7	.0	9.8	100.0	258
12015	1.4	17.0	46.3	23.8	10.2	.7	.7	10.6	100.0	147
18021	.0	21.0	48.9	23.2	6.2	.7	.0	9.1	100.0	276
TOT	3	159	412	207	79	15	3	10.4		878
PCT	.3	18.1	46.9	23.6	9.0	1.7	.3	100.0		

TABLE 5

PCT FREQ OF TOTAL CLOUD AMOUNT (EIGHTHS)  
BY WIND DIRECTION

WIND DIR	0-2	3-4	5-7	8 & OBSCD	TOTAL OBS	MEAN CLOUD COVER
N	7.3	2.2	4.3	3.2	4.0	4.0
NE	2.2	.0	1.3	1.5	4.4	4.4
E	.6	.9	1.5	3.9	6.4	6.4
SE	.0	.9	2.6	3.7	6.9	6.9
S	.6	1.7	3.9	2.4	5.7	5.7
SW	6.7	.2	7.5	.2	4.1	4.1
W	5.6	2.2	7.5	4.1	4.6	4.6
NW	6.3	4.1	7.5	2.6	4.4	4.4
VAR	.0	.0	.0	.0	.0	.0
CALM	.0	.0	.0	.0	8.0	8.0
TOT OBS	34	14	42	28	116	4.8
TOT PCT	29.3	12.1	36.2	22.4	100.0	

TABLE 6

PERCENTAGE FREQUENCY OF CEILING HEIGHTS (FT, NH >4/8)  
AND OCCURRENCE OF NH <5/8 BY WIND DIRECTION

	000 149	150 299	300 599	600 999	1000 1999	2000 3499	3500 4999	5000 6499	6500 7999	8000+	NH <5/8 ANY HGT	TOTAL OBS
N	.0	.0	.0	.6	1.7	.0	1.3	.0	.0	.9	12.5	
NE	.0	.0	.0	1.1	.2	.0	.0	.0	.0	.0	3.7	
E	.0	.0	.0	.0	3.2	.0	.0	.0	.0	.0	3.7	
SE	.0	.9	.0	1.1	3.4	.9	.0	.0	.0	.0	6.9	
S	.0	.0	.0	2.4	2.2	.0	.0	.0	.0	.0	4.1	
SW	.0	.0	.9	2.8	3.0	.9	.2	.0	.0	.0	6.9	
W	.0	.0	.0	3.9	4.1	1.5	.6	.0	.0	.0	9.3	
NW	.0	.0	.0	1.9	4.5	1.1	1.3	.0	.0	.0	11.6	
VAR	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
CALM	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
TOT OBS	0	1	1	16	26	6	4	0	0	1	61	116
TOT PCT	.0	.9	.9	13.8	22.4	5.2	3.4	.0	.0	.9	52.6	100.0

TABLE 7

CUMULATIVE PCT FREQ OF SIMULTANEOUS OCCURRENCE  
OF CEILING HEIGHT (NH >4/8) AND VSBY (NM)

CEILING (FEET)	VSBY (NM)							
	= OR >10	= OR >5	= OR >2	= OR >1	= OR >1/2	= OR >1/4	= OR >50YD	= OR >0
= OR >5000	.9	.9	.9	.9	.9	.9	.9	.9
= OR >4000	.9	.9	.9	.9	.9	.9	.9	.9
= OR >3500	2.6	5.1	5.1	5.1	5.1	5.1	5.1	5.1
= OR >3000	6.8	10.3	10.3	10.3	10.3	10.3	10.3	10.3
= OR >2500	23.9	30.8	32.5	32.5	32.5	32.5	32.5	32.5
= OR >2000	29.1	43.6	46.2	46.2	46.2	46.2	46.2	46.2
= OR >1500	29.1	44.4	47.0	47.0	47.0	47.0	47.0	47.0
= OR >1000	29.9	45.3	47.9	47.9	47.9	47.9	47.9	47.9
= OR >500	29.9	45.3	47.9	47.9	47.9	47.9	47.9	47.9
TOTAL	35	53	56	56	56	56	56	56

TOTAL NUMBER OF OBS: 117

PCT FREQ NH &lt;5/8: 52.1

TABLE 7A

PERCENTAGE FREQ OF LOW CLOUDS (EIGHTHS)

0	1	2	3	4	5	6	7	8 OBSCD	TOTAL OBS
9.2	12.2	13.0	7.6	9.2	9.2	9.9	13.7	16.0	131



PERIOD: (PRIMARY) 1888-1973  
(OVER-ALL) 1871-1973

APRIL

AREA 0010 TASMANIA EAST  
42.55 147.7E

TABLE 8

PERCENT FREQ OF WIND DIRECTION VS OCCURRENCE OR NON-OCCURRENCE OF  
PRECIPITATION WITH VARYING VALUES OF VISIBILITY

VSBY (NM)		N	NE	E	SE	S	SW	W	NW	VAR	CALM	PCT	TOTAL OBS
<1/2	PCP	.0	.0	.0	.1	.0	.0	.0	.0	.0	.0	.1	
	NO PCP	.2	.1	.2	.2	.0	.1	.0	.0	.0	.0	.9	
	TOT %	.2	.1	.2	.4	.0	.1	.0	.0	.0	.0	1.0	
1/2<1	PCP	.1	.0	.0	.1	.6	.2	.0	.1	.0	.0	1.1	
	NO PCP	.5	.4	.1	.1	.4	.6	.1	.4	.0	.0	2.4	
	TOT %	.6	.4	.1	.2	.9	.7	.1	.5	.0	.0	3.5	
1<2	PCP	.0	.0	.0	.1	.1	.0	.0	.0	.0	.0	.1	
	NO PCP	.0	.0	.0	.1	.0	.1	.0	.0	.0	.0	.2	
	TOT %	.0	.0	.0	.2	.1	.1	.0	.0	.0	.0	.4	
2<5	PCP	.0	.0	.0	.1	.0	.0	.0	.0	.0	.0	.1	
	NO PCP	.0	.0	.1	.0	.0	.2	.2	.1	.0	.0	.6	
	TOT %	.0	.0	.1	.1	.0	.2	.2	.1	.0	.0	.7	
5<10	PCP	.8	.6	.2	.6	1.7	2.5	1.8	1.5	.0	.0	9.7	
	NO PCP	9.8	7.9	1.8	3.5	5.5	7.0	10.9	18.4	.0	.4	65.1	
	TOT %	10.6	8.5	2.0	4.1	7.3	9.5	12.7	19.9	.0	.4	74.8	
10+	PCP	.0	.2	.2	.1	.1	.1	.1	.0	.0	.0	.9	
	NO PCP	3.8	.9	2.0	1.4	1.4	2.4	2.8	4.0	.0	.0	18.7	
	TOT %	3.8	1.2	2.1	1.5	1.5	2.5	2.9	4.0	.0	.0	19.6	
TOT OBS													
TOT PCT													
		15.2	10.1	4.5	6.4	9.7	13.2	15.9	24.4	.0	.4	100.0	817

TABLE 9

PERCENT FREQ OF WIND DIRECTION VS WIND SPEED  
WITH VARYING VALUES OF VISIBILITY

VSBY (NM)	SPD KTS	N	NE	E	SE	S	SW	W	NW	VAR	CALM	PCT	TOTAL OBS
<1/2	0-3	.0	.1	.1	.0	.0	.1	.0	.0	.0	.0	.2	
	4-10	.1	.0	.1	.2	.0	.0	.0	.0	.0	.0	.5	
	11-21	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
	22+	.1	.0	.0	.1	.0	.0	.0	.0	.0	.0	.2	
	TOT %	.2	.1	.2	.4	.0	.1	.0	.0	.0	.0	1.0	
1/2<1	0-3	.1	.1	.0	.2	.1	.1	.1	.0	.0	.0	.7	
	4-10	.4	.1	.1	.0	.1	.4	.0	.2	.0	.0	1.3	
	11-21	.1	.1	.0	.0	.5	.1	.0	.0	.0	.0	.9	
	22+	.0	.0	.0	.0	.2	.1	.0	.2	.0	.0	.6	
	TOT %	.6	.4	.1	.2	.9	.7	.1	.5	.0	.0	3.5	
1<2	0-3	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
	4-10	.0	.0	.0	.1	.0	.0	.0	.0	.0	.0	.1	
	11-21	.0	.0	.0	.0	.0	.1	.0	.0	.0	.0	.1	
	22+	.0	.0	.0	.1	.1	.0	.0	.0	.0	.0	.1	
	TOT %	.0	.0	.0	.2	.1	.1	.0	.0	.0	.0	.4	
2<5	0-3	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
	4-10	.0	.0	.1	.0	.0	.0	.0	.0	.0	.0	.1	
	11-21	.0	.0	.0	.1	.0	.0	.1	.1	.0	.0	.2	
	22+	.0	.0	.0	.0	.0	.2	.1	.0	.0	.0	.4	
	TOT %	.0	.0	.1	.1	.0	.2	.2	.1	.0	.0	.7	
5<10	0-3	2.2	3.0	1.2	1.2	.7	1.9	2.8	4.7	.0	.4	17.9	
	4-10	6.3	4.3	.7	2.3	3.9	4.0	6.0	10.4	.0	.0	37.9	
	11-21	2.2	1.0	.1	.6	2.1	1.8	2.4	3.9	.0	.0	14.1	
	22+	.4	.2	.0	.0	.5	1.7	1.4	1.0	.0	.0	5.1	
	TOT %	11.0	8.4	1.9	4.0	7.2	9.4	12.6	20.0	.0	.4	75.0	
10+	0-3	.1	.1	.0	.1	.0	.1	.0	.2	.0	.0	.7	
	4-10	1.4	.7	1.5	.8	.2	1.2	1.0	1.6	.0	.0	8.4	
	11-21	2.2	.3	.6	.5	.4	.6	1.2	1.4	.0	.0	7.2	
	22+	.1	.0	.0	.1	.9	.6	.7	.7	.0	.0	3.2	
	TOT %	3.8	1.2	2.1	1.5	1.5	2.5	2.9	4.0	.0	.0	19.4	
TOT OBS													
TOT PCT													
		15.6	10.1	4.5	6.4	9.7	13.2	15.8	24.5	.0	.4	100.0	823

## APRIL

PERIOD: (PRIMARY) 1888-1973  
(OVER-ALL) 1871-1973

AREA 0010 TASMANIA EAST  
42.55 147.7E

TABLE 10

PERCENT FREQUENCY OF CEILING HEIGHTS (FEET, NH >4/8) AND  
OCCURRENCE OF NH <5/8 BY HOUR

HOURL (GMT)	000 149	150 299	300 599	600 999	1000 1999	2000 3499	3500 4999	5000 6499	6500 7999	8000+	TOTAL	NH <5/8 ANY HGT	TOTAL OBS
00003	.0	.0	4.2	8.3	25.0	12.5	4.2	.0	.0	4.2	58.3	41.7	24
06009	.0	.0	.0	10.3	17.2	3.4	6.9	.0	.0	.0	37.9	62.1	29
12015	.0	2.8	.0	8.3	27.8	5.6	2.8	.0	.0	.0	47.2	52.8	36
18021	.0	.0	.0	23.5	14.7	.0	2.9	.0	.0	.0	41.2	58.8	34
TOT PCT	0 .0	1 .8	1 .8	16 13.0	26 21.1	6 4.9	5 4.1	0 .0	0 .0	1 .8	56 45.5	67 54.5	123 100.0

TABLE 11

PERCENT FREQUENCY VS BY (NM) BY HOUR

HOURL (GMT)	<1/2	1/2<1	1<2	2<5	5<10	10+	TOTAL OBS
00003	1.9	3.2	.0	1.3	76.4	17.2	157
06009	.7	5.4	.3	1.0	78.9	13.7	299
12015	.5	3.8	.0	1.6	70.3	23.6	182
18021	.6	2.9	.6	.0	78.9	16.9	313
TOT PCT	8 .8	37 3.9	3 .3	8 .8	731 76.9	164 17.2	951 100.0

TABLE 12

CUMULATIVE PCT FREQ OF RANGES OF VS BY (NM) AND/OR  
CEILING HGT (FEET, NH >4/8), BY HOUR

HOURL (GMT)	<150 <50YD	<600 <1	<1000 <5	1000+ AND 5+	NH <5/8 AND 5+	TOTAL OBS
00003	.0	4.3	17.4	43.5	39.1	23
06009	.0	.0	14.8	25.9	59.3	27
12015	.0	2.8	11.1	36.1	52.8	36
18021	.0	.0	25.8	19.4	54.8	31
TOT PCT	0 .0	2 1.7	20 17.1	36 30.8	61 52.1	117 100.0

TABLE 13

PERCENT FREQUENCY OF RELATIVE HUMIDITY BY TEMP

TEMP F	0-29	30-39	40-49	50-59	60-69	70-79	80-89	90-100	TOTAL OBS	PCT FREQ
70/74	.0	.0	.0	.6	.0	.0	.0	.0	1	.6
65/69	.0	.0	.0	.6	2.4	.0	.6	.0	6	3.7
60/64	.0	.0	.0	.6	3.0	9.1	7.3	.0	46	28.0
55/59	.0	.0	.0	1.8	6.7	13.4	15.2	12.8	82	50.0
50/54	.0	.0	.0	.0	4.3	4.3	3.7	1.8	23	14.0
45/49	.0	.0	.0	.0	.0	1.8	1.8	.0	6	3.7
TOTAL PCT	0 .0	0 .0	0 .0	5 3.0	24 14.6	51 31.1	47 28.7	37 22.6	164 100.0	

TABLE 14

PERCENT FREQUENCY OF WIND DIRECTION BY TEMP

	N	NE	E	SE	S	SW	W	NW	VAR	CALM
70/74	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
65/69	2.1	.0	.0	.0	.0	.0	.5	1.1	.0	.0
60/64	5.9	2.9	1.5	1.4	.9	2.3	4.9	7.6	.0	.6
55/59	8.8	1.5	4.3	5.6	6.1	5.2	7.9	10.5	.0	.0
50/54	1.1	.0	1.2	2.1	2.7	3.8	2.7	.3	.0	.0
45/49	.6	.0	.0	.0	.9	1.5	.6	.0	.0	.0
TOTAL	19.2	4.4	7.0	9.1	10.7	12.8	16.6	19.5	.0	.6

TABLE 15

MEANS, EXTREMES AND PERCENTILES OF TEMP (DEG F) BY HOUR

HOURL (GMT)	MAX	99%	95%	50%	5%	1%	MIN	MEAN	TOTAL OBS
00003	73	69	67	59	51	46	46	58.7	201
06009	74	72	68	58	50	47	45	58.5	300
12015	68	65	64	56	47	45	45	56.0	182
18021	67	65	63	55	47	41	40	55.3	318
TOT	74	69	65	57	48	45	40	57.1	1001

TABLE 16

PERCENT FREQUENCY OF RELATIVE HUMIDITY BY HOUR

HOURL (GMT)	0-29	30-39	40-49	50-59	60-69	70-79	80-89	90-100	MEAN	TOTAL OBS
00003	.0	6.9	17.2	34.5	10.3	31.0	79	29		
06009	.0	2.9	17.6	23.5	32.4	23.5	81	34		
12015	.0	2.2	4.3	34.8	41.3	17.4	82	46		
18021	.0	1.8	19.6	30.4	25.0	23.2	79	56		
TOT	0	5	24	51	47	38	80	165		

APRIL

PERIOD: (PRIMARY) 1888-1973  
(OVER-ALL) 1871-1973AREA 0010 TASMANIA EAST  
42.55 147.7E

TABLE 17

PCT FREQ OF AIR TEMPERATURE (DEG F) AND THE OCCURRENCE OF FOG (WITHOUT PRECIPITATION)  
VS AIR-SEA TEMPERATURE DIFFERENCE (DEG F)

AIR-SEA TMP DIF	37	41	45	49	53	57	61	65	69	73	TOT	W	WD
	40	44	48	52	56	60	64	68	72	76	FOG	FOG	FOG
14/16	.0	.0	.0	.0	.0	.0	.0	.0	.0	.1	1	.0	.1
11/13	.0	.0	.0	.0	.0	.0	.0	.6	.2	.0	8	.0	.9
9/10	.0	.0	.0	.0	.0	.0	.0	1.0	.6	.0	15	.2	1.4
7/8	.0	.0	.0	.0	.0	.0	1.3	1.0	.0	.0	21	.0	2.3
6	.0	.0	.0	.0	.0	.2	.9	.4	.1	.0	15	.1	1.5
5	.0	.0	.0	.0	.0	.4	1.1	.5	.0	.0	19	.0	2.0
4	.0	.0	.0	.0	.1	1.5	2.3	.9	.0	.0	44	.2	4.5
3	.0	.0	.0	.0	.2	2.8	2.3	.3	.0	.0	52	.2	5.4
2	.0	.0	.0	.0	.2	3.2	3.3	.5	.0	.0	68	.6	6.7
1	.0	.0	.0	.1	1.4	5.0	2.8	.0	.0	.0	86	.1	9.1
0	.0	.0	.0	.2	2.9	6.9	1.8	.1	.0	.0	111	.4	11.5
-1	.0	.0	.0	.3	5.5	4.0	1.2	.0	.0	.0	102	.9	10.1
-2	.0	.0	.0	1.2	5.3	2.7	.1	.1	.0	.0	87	.6	8.7
-3	.0	.0	.1	1.4	4.1	1.1	.0	.0	.0	.0	62	.1	6.6
-4	.0	.0	.0	2.5	3.4	1.1	.1	.0	.0	.0	66	.1	7.0
-5	.0	.0	.4	2.9	1.2	1.0	.0	.0	.0	.0	51	.1	5.4
-6	.0	.0	.4	2.4	1.4	.1	.0	.0	.0	.0	40	.1	4.2
-7/-8	.0	.1	1.6	1.8	1.2	.5	.0	.0	.0	.0	49	.1	5.2
-9/-10	.0	.1	1.1	.4	.1	.3	.0	.0	.0	.0	19	.0	2.0
-11/-13	.2	.1	.8	.1	.1	.0	.0	.0	.0	.0	12	.0	1.3
-14/-16	.0	.0	.1	.0	.0	.0	.0	.0	.0	.0	1	.0	.1
TOTAL	2	3	42	124	252	159	51	9	1	929	37	892	
PCT	.2	.3	4.5	13.3	27.1	30.8	17.1	5.5	1.0	.1	100.0	4.0	96.0

PERIOD: (OVER-ALL) 1963-1973

TABLE 18

PCT FREQ OF WIND SPEED (KTS) AND DIRECTION VERSUS SEA HEIGHTS (FT)

HGT	1-3	4-10	11-21	22-33	34-47	48+	PCT	1-3	4-10	11-21	22-33	34-47	48+	PCT
<1	.9	.0	.0	.0	.0	.0	.9	.0	1.1	.0	.0	.0	.0	1.1
1-2	.0	.9	.0	.0	.0	.0	.9	.0	1.3	.0	.0	.0	.0	1.3
3-4	.0	2.5	2.0	.0	.0	.0	4.5	.0	.9	.2	.0	.0	.0	1.1
5-6	.0	.9	3.1	.0	.0	.0	4.0	.0	.0	.4	.0	.0	.0	.4
7	.0	.0	4.2	.7	.0	.0	4.9	.0	.0	.2	.0	.0	.0	.2
8-9	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
10-11	.0	.0	.9	.0	.0	.0	.9	.0	.0	.0	.0	.0	.0	.0
12	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.2	.0	.2
13-16	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
17-19	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
20-22	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
23-25	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
26-32	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
33-40	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
41-48	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
49-60	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
61-70	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
71-86	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
87+	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
TOT PCT	.9	4.2	10.3	.7	.7	.0	16.7	.0	3.3	.9	.0	.2	.0	4.5

HGT	1-3	4-10	11-21	22-33	34-47	48+	PCT	1-3	4-10	11-21	22-33	34-47	48+	PCT
<1	.0	.7	.0	.0	.0	.0	.7	.0	.0	.0	.0	.0	.0	.0
1-2	.0	3.1	.9	.0	.0	.0	4.0	.0	.9	.0	.0	.0	.0	.9
3-4	.0	.0	1.6	.0	.0	.0	1.6	.0	.9	.9	.0	.0	.0	.9
5-6	.0	.0	.9	.0	.0	.0	.9	.0	1.8	.9	.9	.0	.0	3.6
7	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
8-9	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
10-11	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
12	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
13-16	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
17-19	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.9	.9	.9
20-22	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
23-25	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
26-32	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
33-40	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
41-48	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
49-60	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
61-70	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
71-86	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
87+	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
TOT PCT	.0	3.8	3.3	.0	.0	.0	7.1	.0	2.7	1.8	.9	.0	.9	6.3

PERIOD: (OVER-ALL) 1963-1973

APRIL

AREA 0010 TASMANIA EAST  
42.55 147.7E

TABLE 18 (CONT)

PCT FREQ OF WIND SPEED (KTS) AND DIRECTION VERSUS SEA HEIGHTS (FT)

HGT	1-3	4-10	11-21	22-33	34-47	48+	PCT	1-3	4-10	11-21	22-33	34-47	48+	PCT
<1	.0	.0	.0	.0	.0	.0	.0	.0	.9	.0	.0	.0	.0	.9
1-2	.0	.0	.0	.0	.0	.0	.0	.9	3.8	.0	.0	.0	.0	4.7
3-4	.0	.0	.9	.9	.0	.0	1.8	.0	.4	2.0	.9	.0	.0	3.3
5-6	.0	.0	.9	.9	.0	.0	1.8	.0	.0	.0	.2	.0	.0	.2
7	.0	.0	.0	.9	.0	.7	1.6	.0	.0	.2	.9	.0	.2	1.3
8-9	.0	.0	.0	1.8	.0	.0	1.8	.0	.0	.0	.0	.0	.0	.0
10-11	.0	.0	.0	.9	.0	.0	.9	.0	.0	.0	.0	1.8	.0	1.8
12	.0	.0	.0	1.3	.0	.0	1.3	.0	.0	.0	.7	.0	.0	.7
13-16	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	1.8	.0	1.8
17-19	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
20-22	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
23-25	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
26-32	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
33-40	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
41-48	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
49-60	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
61-70	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
71-86	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
87+	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
TOT PCT	.0	.0	1.8	6.7	.0	.7	9.2	.9	5.1	2.2	2.7	3.6	.2	14.7

HGT	1-3	4-10	11-21	22-33	34-47	48+	PCT	1-3	4-10	11-21	22-33	34-47	48+	PCT	TOTAL PCT
<1	.0	.9	.0	.0	.0	.0	.9	.0	.0	.0	.0	.0	.0	.0	.0
1-2	.0	2.2	.9	.0	.0	.0	3.1	.0	2.9	.9	.0	.0	.0	3.8	.0
3-4	.0	2.7	1.6	.0	.0	.0	4.2	.0	3.3	7.8	.0	.0	.0	11.2	.0
5-6	.0	.0	3.8	1.3	.0	.0	5.1	.0	.0	2.5	.2	.0	.0	2.7	.0
7	.0	.0	.7	1.6	.0	.0	2.2	.0	.0	.0	1.3	.0	.0	1.3	.0
8-9	.0	.0	.0	.9	.0	.0	.9	.0	.0	.0	.0	.0	.0	.0	.0
10-11	.0	.0	.9	.9	.0	.0	1.8	.0	.0	.0	.9	.0	.0	.9	.0
12	.0	.0	.0	.7	.0	.0	1.3	.0	.0	.0	.0	.2	.0	.2	.0
13-16	.0	.0	.0	.0	.0	.0	.9	.0	.0	.0	.0	.0	.0	.0	.0
17-19	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
20-22	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
23-25	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
26-32	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
33-40	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
41-48	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
49-60	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
61-70	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
71-86	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
87+	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
TOT PCT	.0	5.8	7.8	5.4	1.6	.0	20.5	.0	6.3	11.2	2.5	.2	.0	20.1	99.1

WIND SPEED (KTS) VS SEA HEIGHT (FT)

HGT	0-3	4-10	11-21	22-33	34-47	48+	PCT	TOT DBS
<1	1.8	3.6	.0	.0	.0	.0	5.4	
1-2	.9	15.2	2.7	.0	.0	.0	18.8	
3-4	.0	9.8	17.0	1.8	.0	.0	28.6	
5-6	.0	2.7	12.5	3.6	.0	.0	18.8	
7	.0	.0	5.4	5.4	.0	.9	11.6	
8-9	.0	.0	.0	2.7	.0	.0	2.7	
10-11	.0	.0	1.8	2.7	1.8	.0	6.3	
12	.0	.0	.0	2.7	1.8	.0	4.5	
13-16	.0	.0	.0	.0	2.7	.0	2.7	
17-19	.0	.0	.0	.0	.0	.9	.9	
20-22	.0	.0	.0	.0	.0	.0	.0	
23-25	.0	.0	.0	.0	.0	.0	.0	
26-32	.0	.0	.0	.0	.0	.0	.0	
33-40	.0	.0	.0	.0	.0	.0	.0	
41-48	.0	.0	.0	.0	.0	.0	.0	
49-60	.0	.0	.0	.0	.0	.0	.0	
61-70	.0	.0	.0	.0	.0	.0	.0	
71-86	.0	.0	.0	.0	.0	.0	.0	
87+	.0	.0	.0	.0	.0	.0	.0	
TOT PCT	2.7	31.3	39.3	18.8	6.3	1.8	100.0	112

PERIOD: (OVER-ALL) 1964-1973

TABLE 19

PERCENT FREQUENCY OF WAVE HEIGHT (FT) VS WAVE PERIOD (SECONDS)

PERIOD (SEC)	<1	1-2	3-4	5-6	7	8-9	10-11	12	13-16	17-19	20-22	23-25	26-32	33-40	41-48	49-60	61-70	71-86	87+	TOTAL	MEAN HGT
<6	3.4	6.0	6.8	5.1	.0	.9	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	27
6-7	.0	.9	6.0	12.0	6.8	4.3	3.4	2.6	.9	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	43
8-9	.0	.0	.9	.9	6.0	1.7	2.6	1.7	1.7	.0	1.7	.0	.0	.0	.0	.0	.0	.0	.0	.0	20
10-11	.0	.0	.0	1.7	.0	1.7	1.7	.0	.0	.9	.9	.0	.0	.0	.0	.0	.0	.0	.0	.0	8
12-13	.0	.0	2.6	.0	.9	.0	.9	.0	.9	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	6
13-14	.0	.0	.0	.0	.0	.0	.0	.0	2.6	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	3
INDET	1.7	.0	.9	.0	2.6	1.7	1.7	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	10
TOTAL	6	8	20	23	19	12	12	6	7	1	3	0	0	0	0	0	0	0	0	0	117
PCT	5.1	6.8	17.1	19.7	16.2	10.3	10.3	5.1	6.0	.9	2.6	.0	.0	.0	.0	.0	.0	.0	.0	.0	100.0

PERIOD: (PRIMARY) 1888-1969  
(OVER-ALL) 1859-1969

MAY

AREA 0010 TASMANIA EAST  
42.45 147.9E

TABLE 1

PERCENT FREQUENCY OF WEATHER OCCURRENCE BY WIND DIRECTION

WIND DIR	PRECIPITATION TYPE							OTHER WEATHER PHENOMENA						
	RAIN	RAIN SHWR	DRZL	FRZG PCPN	SNOW	OTHER FRZN PCPN	HAIL	PCPN AT OB TIME	PCPN PAST HOUR	THOR LTNG	FGG WD PCPN	FGG WD PCPN PAST HR	SMOKE HAZE	SPRAY BLWG DUST SIG
N	1.0	3.1	.0	.0	.0	.0	.0	4.2	.8	2.1	2.1	.0	.0	.0 90.8
NE	7.1	5.7	.0	.0	.0	.0	.0	12.8	.0	.0	2.8	.0	.0	.0 84.4
E	3.3	3.3	.0	.0	.0	.0	.0	6.6	.0	6.6	19.7	.0	.0	.0 67.2
SE	9.9	32.6	8.5	.0	.0	.0	.0	51.1	.0	.0	.0	.0	.0	.0 48.9
S	4.5	27.9	5.4	.0	.0	.0	.0	37.8	.0	.0	.0	.0	.0	.0 62.2
SW	4.9	20.3	6.6	.0	.0	.0	1.1	32.9	1.1	1.1	.0	.0	.0	.0 64.9
W	4.5	9.1	.0	.0	.0	.0	.0	13.6	.0	.0	.0	.0	.0	.0 86.4
NW	3.7	4.4	.6	.0	.0	.0	.0	8.7	.2	1.2	1.9	.0	.0	.0 89.2
VAR	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0 .0
CALM	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0 100.0
TOT PCT	4.2	11.5	2.3	.0	.0	.0	.2	18.2	.4	1.1	1.6	.0	.0	.0 79.2
TOT OBS:	567													

TABLE 2

PERCENT FREQUENCY OF WEATHER OCCURRENCE BY HOUR

HOUR (GMT)	PRECIPITATION TYPE							OTHER WEATHER PHENOMENA						
	RAIN	RAIN SHWR	DRZL	FRZG PCPN	SNOW	OTHER FRZN PCPN	HAIL	PCPN AT OB TIME	PCPN PAST HOUR	THOR LTNG	FGG WD PCPN	FGG WD PCPN PAST HR	SMOKE HAZE	SPRAY BLWG DUST SIG
00003	3.0	7.9	3.0	.0	.0	.0	.0	13.9	.0	.0	1.0	.0	.0	.0 85.1
06009	3.5	11.6	1.5	.0	.0	.0	.0	16.6	.0	1.5	1.5	.0	.0	.0 80.9
12015	5.4	10.0	3.8	.0	.0	.0	.8	20.0	.0	1.5	2.3	.0	.0	.0 76.9
18021	4.0	12.0	3.0	.0	.0	.0	.0	19.0	1.0	.5	3.0	.0	.0	.0 76.5
TOT PCT	4.0	10.8	2.7	.0	.0	.0	.2	17.6	.3	1.0	2.1	.0	.0	.0 79.4
TOT OBS:	690													

TABLE 3

PERCENTAGE FREQUENCY OF WIND DIRECTION BY SPEED AND BY HOUR

WIND DIR	WIND SPEED (KNOTS)							TOTAL OBS	PCT FREQ	MEAN SPD	HOUR (GMT)						
	0-3	4-10	11-21	22-33	34-47	48+					00	03	06	09	12	15	18
N	1.8	7.2	5.8	.9	.2	.2		16.0	11.6		33.3	10.9	10.0	14.7	27.8	21.1	20.9
NE	.6	3.0	3.0	.0	.2	.0		6.8	10.6		.0	5.9	7.4	8.7	10.2	6.3	7.2
E	.6	1.3	.8	.0	.0	.0		2.6	8.8		4.8	1.8	4.7	3.8	.0	1.6	2.5
SE	1.8	3.8	.6	.6	.0	.0		6.8	8.5		.0	10.0	12.1	11.4	.0	5.8	2.5
S	.8	4.7	2.8	1.0	.4	.0		9.7	11.7		4.8	9.1	12.4	13.6	7.4	6.3	7.0
SW	.2	7.0	6.2	2.0	.8	.0		16.3	14.3		25.0	12.3	16.8	14.9	16.7	16.8	17.8
W	1.4	4.3	5.0	3.0	.4	.0		14.0	14.4		11.9	17.7	10.3	12.2	18.5	13.7	15.8
NW	4.6	15.2	6.3	1.4	.2	.0		27.6	9.3		20.2	32.3	25.3	20.7	15.7	28.4	26.4
VAR	.0	.0	.0	.0	.0	.0		.0	.0		.0	.0	.0	.0	.0	.0	.0
CALM	.3							.3	.0		.0	.0	1.1	.0	3.7	.0	.0
TOT OBS	75	290	190	56	13	1	625		11.4		21	110	95	92	27	95	111
TOT PCT	12.0	46.4	30.4	9.0	2.1	.2		100.0			100.0	100.0	100.0	100.0	100.0	100.0	100.0

TABLE 3A

WIND DIR	WIND SPEED (KNOTS)					TOTAL OBS	PCT FREQ	MEAN SPD	HOUR (GMT)				
	0-6	7-16	17-27	28-40	41+				00	03	06	12	18
N	3.4	9.3	3.0	.2	.2		16.0	11.6	14.5	12.3	22.5	16.6	
NE	2.5	3.2	1.0	.0	.2		6.8	10.6	5.0	8.0	7.2	6.5	
E	1.1	1.0	.5	.0	.0		2.6	8.8	2.3	4.3	1.2	2.0	
SE	3.7	2.0	.6	.5	.0		6.8	8.5	8.4	11.8	4.5	2.0	
S	3.4	4.2	1.4	.6	.1		9.7	11.7	8.4	13.0	6.6	9.3	
SW	2.4	8.1	4.5	1.0	.3		16.3	14.3	14.3	15.9	16.8	17.7	
W	3.2	6.1	2.8	1.7	.2		14.0	14.4	16.8	11.2	14.8	14.3	
NW	10.1	13.8	3.4	.3	.0		27.6	9.3	30.3	23.0	25.6	31.5	
VAR	.0	.0	.0	.0	.0		.0	.0	.0	.0	.0	.0	
CALM	.3						.3	.0	.0	.5	.8	.0	
TOT OBS	188	298	106	27	6	625		11.4	131	187	122	185	
TOT PCT	30.1	47.7	17.0	4.3	1.0		100.0		100.0	100.0	100.0	100.0	



PERIOD: (PRIMARY) 1888-1969  
(OVER-ALL) 1859-1969

MAY

AREA 0010 TASMANIA EAST  
42.45 147.9E

TABLE 4

PERCENTAGE FREQUENCY OF WIND SPEED BY HOUR (GMT)

HOUR	CALM	1-3	4-10	WIND SPEED (KNOTS)			48+	MEAN	PCT FREQ	TOTAL OBS
				11-21	22-33	34-47				
0000	.0	6.1	40.5	40.5	10.7	2.3	.0	12.9	100.0	131
0609	.5	12.8	49.2	28.9	7.0	1.6	.0	10.6	100.0	187
1205	.8	15.6	43.4	28.7	9.8	1.6	.0	10.8	100.0	122
1802	.0	11.9	49.7	25.9	9.2	2.7	.5	11.5	100.0	183
TOT	2	73	290	190	56	13	1	11.4		625
PCT	.3	11.7	46.4	30.4	9.0	2.1	.2	100.0		

TABLE 5

PCT FREQ OF TOTAL CLOUD AMOUNT (EIGHTHS)  
BY WIND DIRECTION

WIND DIR	0-2	3-4	5-7	8 & OBSCD	TOTAL OBS	MEAN CLOUD COVER
N	3.9	1.3	11.7	7.1		5.8
NH	.0	.0	7.1	1.3		6.6
E	.0	.0	.0	2.3		8.0
SE	1.3	.0	.0	.3		3.2
S	.0	1.3	3.6	3.6		6.5
SW	4.9	4.2	6.8	6.8		5.1
W	5.5	5.5	2.3	.0		3.1
NW	3.9	5.8	3.6	3.2		4.2
VAR	.0	.0	.0	.0		.0
CALM	.0	1.3	1.3	.0	77	5.0
TOT OBS	15	15	28	19		5.1
TOT PCT	19.5	19.5	36.4	24.7	100.0	

TABLE 6

PERCENTAGE FREQUENCY OF CEILING HEIGHTS (FT, NH >4/8)  
AND OCCURRENCE OF NH <5/8 BY WIND DIRECTION

	000 149	150 299	300 599	600 999	1000 1999	2000 3499	3500 4999	5000 6499	6500 7999	8000+	NH <5/8 ANY HGT	TOTAL OBS
N	.0	.0	1.3	3.6	.0	1.9	1.9	1.3	.0	.0	14.0	
NH	.0	.0	.0	1.3	2.6	1.3	.6	.0	.0	.0	2.6	
E	.0	.0	.0	.0	.0	2.3	.0	.0	.0	.0	.0	
SE	.0	.0	.0	.0	.0	.3	.0	.0	.0	.0	1.3	
S	.0	.0	.0	3.9	1.0	.0	1.3	.0	.0	.0	2.3	
SW	.0	.0	.0	6.5	2.9	1.3	.0	.0	.0	1.3	10.7	
W	.0	.0	.0	.0	.0	1.3	.0	.0	.0	.0	12.0	
NW	.0	.0	.0	1.6	.0	1.9	.0	.0	.0	.0	13.0	
VAR	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
CALM	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	2.6	
TOT OBS	0	0	1	13	5	8	3	1	0	1	45	77
TOT PCT	.0	.0	1.3	16.9	6.5	10.4	3.9	1.3	.0	1.3	58.4	100.0

TABLE 7

CUMULATIVE PCT FREQ OF SIMULTANEOUS OCCURRENCE  
OF CEILING HEIGHT (NH >4/8) AND VSBY (NM)

CEILING (FEET)	VSBY (NM)							
	>10	>5	>2	>1	>1/2	>1/4	>50YD	>0
>6500	1.3	1.3	1.3	1.3	1.3	1.3	1.3	1.3
>5000	2.5	2.5	2.5	2.5	2.5	2.5	2.5	2.5
>3500	6.3	6.3	6.3	6.3	6.3	6.3	6.3	6.3
>2000	16.5	16.5	16.5	16.5	16.5	16.5	16.5	16.5
>1000	21.5	22.8	22.8	22.8	22.8	22.8	22.8	22.8
>600	31.6	39.2	39.2	39.2	39.2	39.2	39.2	39.2
>300	31.6	40.5	40.5	40.5	40.5	40.5	40.5	40.5
>150	31.6	40.5	40.5	40.5	40.5	40.5	40.5	40.5
>0	31.6	40.5	40.5	40.5	40.5	40.5	40.5	40.5
TOTAL	25	32	32	32	32	32	32	32

TOTAL NUMBER OF OBS: 79

PCT FREQ NH <5/8: 59.5

TABLE 7A

PERCENTAGE FREQ OF LOW CLOUDS (EIGHTHS)

	0	1	2	3	4	5	6	7	8 OBSCD	TOTAL OBS
	9.0	9.0	19.1	13.5	9.0	4.5	4.5	12.4	19.1	89

PERIOD: (PRIMARY) 1888-1969  
(OVER-ALL) 1859-1969

MAY

AREA 0010 TASMANIA EAST  
42.45 147.9E

TABLE 8

PERCENT FREQ OF WIND DIRECTION VS OCCURRENCE OR NON-OCCURRENCE OF  
PRECIPITATION WITH VARYING VALUES OF VISIBILITY

VSBY (NM)		N	NE	E	SE	S	SW	W	NW	VAR	CALM	PCT	TOTAL OBS
<1/2	PCP	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
	NO PCP	.0	.0	.2	.0	.0	.0	.0	.2	.0	.0	.4	
	TOT %	.0	.0	.2	.0	.0	.0	.0	.2	.0	.0	.4	
1/2<1	PCP	.0	.0	.0	.4	.2	.2	.0	.0	.0	.0	.7	
	NO PCP	.2	.2	.4	.0	.0	.2	.0	.4	.0	.0	1.2	
	TOT %	.2	.2	.4	.4	.2	.4	.0	.4	.0	.0	1.9	
1<2	PCP	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
	NO PCP	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
	TOT %	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
2<5	PCP	.0	.0	.1	.1	.0	.0	.0	.0	.0	.0	.2	
	NO PCP	.4	.0	.0	.0	.0	.0	.0	.2	.0	.0	.5	
	TOT %	.4	.0	.1	.1	.0	.0	.0	.2	.0	.0	.7	
5<10	PCP	.7	.6	.1	2.7	3.5	4.8	1.7	2.5	.0	.0	16.6	
	NO PCP	10.8	4.2	1.7	2.7	4.2	6.5	6.8	21.5	.0	.0	58.5	
	TOT %	11.5	4.9	1.8	5.5	7.7	11.3	8.5	24.0	.0	.0	75.1	
10+	PCP	.0	.2	.0	.0	.0	.4	.2	.0	.0	.0	.7	
	NO PCP	4.8	1.0	.3	.3	1.9	4.0	4.9	3.6	.0	.4	21.2	
	TOT %	4.8	1.2	.3	.3	1.9	4.4	5.1	3.6	.0	.4	21.9	
TOT OBS													566
TOT PCT		16.8	6.2	2.7	6.2	9.7	16.0	13.6	28.3	.0	.4	100.0	

TABLE 9

PERCENT FREQ OF WIND DIRECTION VS WIND SPEED  
WITH VARYING VALUES OF VISIBILITY

VSBY (NM)	SPD KTS	N	NE	E	SE	S	SW	W	NW	VAR	CALM	PCT	TOTAL OBS
<1/2	0-3	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
	4-10	.0	.0	.2	.0	.0	.0	.0	.2	.0	.0	.4	
	11-21	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
	22+	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
	TOT %	.0	.0	.2	.0	.0	.0	.0	.2	.0	.0	.4	
1/2<1	0-3	.0	.0	.0	.0	.0	.2	.0	.0	.0	.0	.2	
	4-10	.2	.2	.2	.4	.0	.2	.0	.2	.0	.0	1.2	
	11-21	.0	.0	.0	.0	.2	.0	.0	.0	.0	.0	.5	
	22+	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
	TOT %	.2	.2	.4	.4	.2	.4	.0	.4	.0	.0	1.9	
1<2	0-3	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
	4-10	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
	11-21	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
	22+	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
	TOT %	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
2<5	0-3	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
	4-10	.4	.0	.1	.1	.0	.0	.0	.2	.0	.0	.7	
	11-21	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
	22+	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
	TOT %	.4	.0	.1	.1	.0	.0	.0	.2	.0	.0	.7	
5<10	0-3	1.7	.5	.6	1.8	.8	.1	1.1	4.9	.0	.0	11.6	
	4-10	5.3	2.0	.9	2.7	3.4	5.5	2.2	13.8	.0	.0	35.9	
	11-21	3.8	2.3	.3	.4	2.2	3.7	2.8	4.2	.0	.0	19.7	
	22+	1.0	.0	.0	.5	1.2	1.9	2.3	.9	.0	.0	7.9	
	TOT %	11.8	4.8	1.8	5.5	7.7	11.3	8.5	24.0	.0	.0	75.2	
10+	0-3	.3	.0	.0	.0	.0	.4	.1	.0	.0	.4	1.1	
	4-10	1.9	.5	.0	.3	1.0	1.5	2.3	1.8	.0	.0	9.3	
	11-21	2.2	.7	.3	.4	.7	2.3	1.9	1.5	.0	.0	9.7	
	22+	.4	.0	.0	.0	.2	.5	.5	.2	.0	.0	1.8	
	TOT %	4.8	1.2	.3	.3	1.8	4.4	5.1	3.6	.0	.4	21.8	
TOT OBS													568
TOT PCT		17.0	6.2	2.7	6.2	9.7	16.0	13.6	28.3	.0	.4	100.0	

MAY

PERIOD: (PRIMARY) 1888-1969  
(OVER-ALL) 1859-1969AREA 0010, TASMANIA EAST  
42.45 147.9E

TABLE 10

PERCENT FREQUENCY OF CEILING HEIGHTS (FEET, NH >4/8) AND  
OCCURRENCE OF NH <5/8 BY HOUR

HOUR (GMT)	000 149	150 299	300 599	600 999	1000 1999	2000 3499	3500 4999	5000 6499	6500 7999	8000+	TOTAL OBS	NH <5/8 ANY HGT	TOTAL OBS
00603	.0	.0	5.3	5.3	5.3	5.3	5.3	.0	.0	.0	26.3	73.7	19
06609	.0	.0	.0	27.8	.0	11.1	.0	.0	.0	.0	38.9	61.1	18
12615	.0	.0	.0	17.9	7.1	10.7	3.6	3.6	.0	.0	42.9	57.1	28
18621	.0	.0	.0	10.0	10.0	10.0	5.0	.0	.0	5.0	40.0	60.0	20
TOT	0	0	1	13	5	8	3	1	0	1	32	53	85
PCT	.0	.0	1.2	15.3	5.9	9.4	3.5	1.2	.0	1.2	37.6	62.4	100.0

TABLE 11

PERCENT FREQUENCY VSBY (NM) BY HOUR

HOUR (GMT)	<1/2	1/2<1	1<2	2<5	5<10	10+	TOTAL OBS
00603	1.0	.0	.0	.0	75.0	24.0	100
06609	.0	2.0	.0	1.0	82.6	14.4	201
12615	.0	2.3	.0	.8	69.2	27.7	130
18621	.5	5.5	.0	.5	73.5	20.0	200
TOT	2	18	0	4	478	129	631
PCT	.3	2.9	.0	.6	75.8	20.4	100.0

TABLE 12

CUMULATIVE PCT FREQ OF RANGES OF VSBY (NM) AND/OR  
CEILING HGT (FEET, NH >4/8), BY HOUR

HOUR (GMT)	<150 <50YD	<600 <1	<1000 <5	1000+ AND5+	NH <5/8 AND 5+	TOTAL OBS
00603	.0	5.6	11.1	16.7	72.2	18
06609	.0	.0	29.4	11.8	58.8	17
12615	.0	.0	20.0	28.0	52.0	25
18621	.0	.0	10.5	31.5	57.9	19
TOT	0	1	14	18	47	79
PCT	.0	1.3	17.7	22.8	59.5	100.0

TABLE 13

PERCENT FREQUENCY OF RELATIVE HUMIDITY BY TEMP

TEMP F	0-29	30-39	40-49	50-59	60-69	70-79	80-89	90-100	TOTAL OBS	PCT FREQ
60/64	.0	.0	.0	.0	.0	6.5	3.7	2.8	14	13.1
55/59	.0	.0	.0	.9	8.4	13.1	15.9	14.0	56	52.3
50/54	.0	.0	.0	1.0	7.5	9.3	10.3	2.8	34	31.8
45/49	.0	.0	.0	.0	.0	.0	.9	1.9	3	2.8
TOTAL	0	0	3	17	31	33	23	23	107	100.0
PCT	.0	.0	.0	2.8	15.9	29.0	30.8	21.5		

TABLE 14

PERCENT FREQUENCY OF WIND DIRECTION BY TEMP

	N	NE	E	SE	S	SW	W	NW	VAR	CALM
60/64	6.1	.9	.0	.0	.9	2.8	.0	1.4	.0	.9
55/59	13.8	7.2	1.6	1.2	4.0	3.3	11.2	9.1	.0	.9
50/54	5.1	.0	2.8	.9	3.0	12.9	4.7	2.3	.0	.0
45/49	.0	.0	.9	.0	.0	1.9	.0	.0	.0	.0
TOTAL	25.0	8.2	5.4	2.1	7.9	20.8	15.9	12.9	.0	1.9

TABLE 15

MEANS, EXTREMES AND PERCENTILES OF TEMP (DEG F) BY HOUR

HOUR (GMT)	MAX	99%	95%	50%	5%	1%	MIN	MEAN	TOTAL OBS
00603	64	63	62	56	49	46	46	55.3	138
06609	67	65	61	56	48	45	45	55.1	206
12615	64	63	60	54	46	43	42	53.7	133
18621	62	61	59	53	44	39	37	52.4	207
TOT	67	63	61	54	46	42	37	54.1	684

TABLE 16

PERCENT FREQUENCY OF RELATIVE HUMIDITY BY HOUR

HOUR (GMT)	0-29	30-39	40-49	50-59	60-69	70-79	80-89	90-100	MEAN	TOTAL OBS
00603	.0	4.5	13.6	31.8	13.6	36.4	82	22		
06609	.0	4.0	16.0	20.0	32.0	28.0	81	25		
12615	.0	3.1	12.5	34.4	34.4	15.6	80	32		
18621	.0	.0	20.0	30.0	36.7	13.3	80	30		
TOT	0	3	17	32	33	24	80	109		

PERIOD: (PRIMARY) 1888-1969  
(OVER-ALL) 1859-1969

MAY

AREA 0010 TASMANIA EAST  
42.4S 147.9E

TABLE 17

PCT FREQ OF AIR TEMPERATURE (DEG F) AND THE OCCURRENCE OF FOG (WITHOUT PRECIPITATION)  
VS AIR-SEA TEMPERATURE DIFFERENCE (DEG F)

AIR-SEA TMP DIF	37 40	41 44	45 48	49 52	53 56	57 60	61 64	65 68	TOT	W FOG	WO FOG
9/10	.0	.0	.0	.0	.0	.0	.0	.3	2	.0	.3
7/8	.0	.0	.0	.0	.0	.2	.5	.0	4	.0	.7
6	.0	.0	.0	.0	.0	.5	.3	.0	5	.0	.8
5	.0	.0	.0	.0	.2	.5	.8	.2	10	.0	1.7
4	.0	.0	.0	.0	1.0	1.5	.7	.0	19	.0	3.1
3	.0	.0	.0	.0	.8	3.5	1.0	.0	32	.0	5.3
2	.0	.0	.0	.0	1.8	4.1	.3	.0	38	.2	6.1
1	.0	.0	.0	.3	3.5	5.1	.2	.0	35	.0	9.1
0	.0	.0	.0	2.0	7.8	3.8	.5	.0	85	.7	13.4
-1	.0	.0	.0	2.3	7.6	2.8	.0	.0	77	.0	12.7
-2	.0	.0	.7	2.5	6.8	1.3	.0	.0	68	.3	10.9
-3	.0	.0	.5	4.8	4.0	.3	.0	.0	38	.2	9.4
-4	.0	.0	.8	4.5	1.3	.7	.0	.0	44	.2	7.1
-5	.0	.2	2.5	2.6	.8	.0	.0	.0	37	.3	5.8
-6	.0	.7	1.3	1.7	.5	.0	.0	.0	25	.2	4.0
-7/-8	.0	.8	2.5	1.5	.8	.2	.0	.0	35	.0	5.8
-9/-10	.2	.3	.3	.5	.0	.0	.0	.0	8	.0	1.3
-11/-13	.3	.2	.0	.2	.0	.0	.0	.0	4	.2	.5
TOTAL	3	13	52	223	148	26	3	606	13	593	
PCT	.5	2.1	8.5	22.8	36.8	24.4	4.3	.5	100.0	2.1	97.9

PERIOD: (OVER-ALL) 1963-1969

TABLE 18

PCT FREQ OF WIND SPEED (KTS) AND DIRECTION VERSUS SEA HEIGHTS (FT)

HGT	N							NE						
	1-3	4-10	11-21	22-33	34-47	48+	PCT	1-3	4-10	11-21	22-33	34-47	48+	PCT
<1	.0	1.5	.0	.0	.0	.0	1.5	.0	.0	.0	.0	.0	.0	.0
1-2	.0	.0	2.7	.0	.0	.0	2.7	.0	3.0	.0	.0	.0	.0	3.0
3-4	.0	8.0	7.2	1.5	.0	.0	16.7	.0	.0	.4	.0	.0	.0	.4
5-6	.0	.0	1.1	.0	.0	.0	1.1	.0	.0	3.0	.0	.0	.0	3.0
7	.0	.0	1.5	1.1	.0	.0	2.7	.0	.0	1.5	.0	.0	.0	1.5
8-9	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
10-11	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
12	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
13-16	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
17-19	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
20-22	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
23-25	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
26-32	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
33-40	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
41-48	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
49-60	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
61-70	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
71-86	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
87+	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
TOT PCT	.0	9.5	12.5	2.7	.0	.0	24.6	.0	3.0	4.9	.0	.0	.0	8.0

HGT	E							SE						
	1-3	4-10	11-21	22-33	34-47	48+	PCT	1-3	4-10	11-21	22-33	34-47	48+	PCT
<1	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
1-2	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
3-4	.0	.0	1.1	.0	.0	.0	1.1	.0	1.5	.4	.0	.0	.0	1.9
5-6	.0	.0	1.5	.0	.0	.0	1.5	.0	.0	.0	.0	.0	.0	.0
7	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
8-9	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
10-11	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
12	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
13-16	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
17-19	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
20-22	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
23-25	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
26-32	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
33-40	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
41-48	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
49-60	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
61-70	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
71-86	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
87+	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
TOT PCT	.0	.0	2.7	.0	.0	.0	2.7	.0	1.5	.4	.0	.0	.0	1.9

PERIOD: (OVER-ALL) 1963-1969

MAY

AREA 0010 TASMANIA EAST  
42.45 147.9E

TABLE 18 (CONT)

PCT FREQ OF WIND SPEED (KTS) AND DIRECTION VERSUS SEA HEIGHTS (FT)

HGT	S							SW							PCT
	1-3	4-10	11-21	22-33	34-47	48+	PCT	1-3	4-10	11-21	22-33	34-47	48+	PCT	
<1	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
1-2	.0	2.7	.0	.0	.0	.0	2.7	.0	3.4	.0	.0	.0	.0	.0	3.4
3-4	.0	.0	5.7	.0	.0	.0	5.7	.0	1.5	6.4	.0	.0	.0	.0	8.0
5-6	.0	.0	.0	.0	.0	.0	.0	.0	.0	4.5	.0	.0	.0	.0	4.5
7	.0	.0	.0	.0	.0	.0	.0	.0	.0	.4	3.0	.0	.0	.0	3.4
8-9	.0	.0	.0	.0	.0	.0	.0	.0	.0	1.5	.0	.0	.0	.0	1.5
10-11	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
12	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
13-16	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
17-19	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
20-22	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
23-25	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
26-32	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
33-40	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
41-48	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
49-60	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
61-70	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
71-86	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
87+	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
TOT PCT	.0	2.7	5.7	.0	.0	.0	8.3	.0	4.9	11.4	4.5	.0	.0	.0	20.8

HGT	W							NW							PCT	TOTAL PCT
	1-3	4-10	11-21	22-33	34-47	48+	PCT	1-3	4-10	11-21	22-33	34-47	48+	PCT		
<1	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
1-2	.0	4.5	.0	.0	.0	.0	4.5	.0	4.5	.4	.0	.0	.0	.0	4.9	.0
3-4	.0	.0	4.5	.0	.0	.0	4.5	.0	4.2	3.0	.0	.0	.0	.0	7.2	.0
5-6	.0	.0	1.1	1.5	.0	.0	2.7	.0	.0	.8	.0	.0	.0	.0	.8	.0
7	.0	.0	1.1	1.5	.0	.0	2.7	.0	.0	.0	.4	.0	.0	.0	.4	.0
8-9	.0	.0	.0	.0	1.5	.0	1.5	.0	.0	.0	1.5	.0	.0	.0	1.5	.0
10-11	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
12	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
13-16	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
17-19	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
20-22	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
23-25	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
26-32	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
33-40	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
41-48	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
49-60	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
61-70	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
71-86	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
87+	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
TOT PCT	.0	4.5	6.8	3.0	1.5	.0	15.9	.0	8.7	4.2	1.9	.0	.0	.0	14.8	97.0

WIND SPEED (KTS) VS SEA HEIGHT (FT)

HGT	0-3	4-10	11-21	22-33	34-47	48+	PCT	TOT DBS
<1	3.0	1.5	.0	.0	.0	.0	4.5	
1-2	.0	19.4	3.0	.0	.0	.0	22.4	
3-4	.0	14.9	28.4	1.5	.0	.0	44.8	
5-6	.0	.0	11.9	1.5	.0	.0	13.4	
7	.0	.0	4.5	6.0	.0	.0	10.4	
8-9	.0	.0	.0	3.0	1.5	.0	4.5	
10-11	.0	.0	.0	.0	.0	.0	.0	
12	.0	.0	.0	.0	.0	.0	.0	
13-16	.0	.0	.0	.0	.0	.0	.0	
17-19	.0	.0	.0	.0	.0	.0	.0	
20-22	.0	.0	.0	.0	.0	.0	.0	
23-25	.0	.0	.0	.0	.0	.0	.0	
26-32	.0	.0	.0	.0	.0	.0	.0	
33-40	.0	.0	.0	.0	.0	.0	.0	
41-48	.0	.0	.0	.0	.0	.0	.0	
49-60	.0	.0	.0	.0	.0	.0	.0	
61-70	.0	.0	.0	.0	.0	.0	.0	
71-86	.0	.0	.0	.0	.0	.0	.0	
87+	.0	.0	.0	.0	.0	.0	.0	
TOT PCT	3.0	35.8	47.8	11.9	1.5	.0	100.0	67

PERIOD: (OVER-ALL) 1949-1969

TABLE 19

PERCENT FREQUENCY OF WAVE HEIGHT (FT) VS WAVE PERIOD (SECONDS)

PERIOD (SEC)	<1	1-2	3-4	5-6	7	8-9	10-11	12	13-16	17-19	20-22	23-25	26-32	33-40	41-48	49-60	61-70	71-86	87+	TOTAL	MEAN HGT	
<6	1.3	6.6	15.8	6.6	1.3	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	24	3
6-7	.0	.0	10.5	18.4	5.3	3.9	.0	.0	1.3	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	30	5
8-9	.0	.0	2.6	3.9	2.6	2.6	1.3	.0	1.3	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	11	7
10-11	.0	.0	.0	2.6	.0	1.3	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	3	6
12-13	.0	.0	.0	1.3	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	1	5
>13	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	0	0
INDET	1.3	1.3	1.3	3.9	.0	1.3	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	7	4
TOTAL	2	6	23	28	7	7	1	0	2	0	0	0	0	0	0	0	0	0	0	0	76	5
PCT	2.6	7.9	30.3	36.8	9.2	9.2	1.3	.0	2.6	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	100.0	



PERIOD: (PRIMARY) 1888-1969  
(OVER-ALL) 1858-1969

JUNE

AREA 0010 TASMANIA EAST  
42.55 148.3E

TABLE 1

PERCENT FREQUENCY OF WEATHER OCCURRENCE BY WIND DIRECTION

WIND DIR	PRECIPITATION TYPE							OTHER WEATHER PHENOMENA							NO SIG WEA
	RAIN	RAIN SHWR	DRZL	FRZG PCPN	SNOW	OTHER FRZN PCPN	HAIL	PCPN AT OB TIME	PCPN PAST HOUR	THOR LTNG	FGG WD PCPN	FGG WD PCPN PAST HR	SMOKE HAZE	SPRAY BLWG DUST	
N	5.4	6.1	.0	.0	.0	.0	.0	12.5	.0	1.1	1.1	.0	3.5	.0	83.0
NE	7.1	5.1	.0	.0	.0	.0	.0	12.2	.0	.0	8.2	.0	1.5	.0	78.1
E	.0	30.9	3.6	.0	.0	.0	.0	34.5	.0	.0	14.5	.0	.0	.0	50.9
SE	1.5	23.9	6.0	.0	.0	.0	.0	31.3	.0	.0	6.0	.0	.0	.0	62.7
S	6.5	17.9	8.1	.0	.0	.0	.0	29.3	.0	.0	.0	.0	3.3	.0	67.5
SW	3.3	17.6	1.1	.0	.0	.0	.0	22.0	4.4	.0	2.2	.0	2.2	.0	69.2
W	4.6	5.5	.0	.0	.0	.0	.0	10.1	.0	4.6	5.5	.0	.0	.0	81.7
NW	4.2	6.0	.0	.0	.0	.0	.0	10.2	.0	.5	4.2	.0	.0	.0	85.0
VAR	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
CALM	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
TOT PCT	4.7	10.9	1.4	.0	.0	.0	.0	16.7	.5	.9	4.4	.0	1.4	.0	76.5
TOT OBS:	430														

TABLE 2

PERCENT FREQUENCY OF WEATHER OCCURRENCE BY HOUR

HOUR (GMT)	PRECIPITATION TYPE							OTHER WEATHER PHENOMENA							NO SIG WEA
	RAIN	RAIN SHWR	DRZL	FRZG PCPN	SNOW	OTHER FRZN PCPN	HAIL	PCPN AT OB TIME	PCPN PAST HOUR	THOR LTNG	FGG WD PCPN	FGG WD PCPN PAST HR	SMOKE HAZE	SPRAY BLWG DUST	
00003	6.5	6.5	1.3	.0	.0	.0	.0	14.3	1.3	.0	6.5	.0	.0	.0	77.9
06009	2.4	15.2	.6	.0	.0	.0	.0	18.2	.0	.6	3.0	.0	2.4	.0	75.8
12015	7.4	16.0	1.1	.0	.0	.0	.0	24.5	.0	1.1	4.3	.0	1.1	.0	70.2
18021	5.3	9.2	2.3	.0	.0	.0	.0	16.0	.8	1.5	5.3	.0	.8	.0	76.3
TOT PCT	4.9	12.2	1.3	.0	.0	.0	.0	18.2	.4	.9	4.5	.0	1.3	.0	75.2
TOT OBS:	467														

TABLE 3

PERCENTAGE FREQUENCY OF WIND DIRECTION BY SPEED AND BY HOUR

WIND DIR	WIND SPEED (KNOTS)							TOTAL OBS	PCT FREQ	MEAN SPD	HOUR (GMT)							
	0-3	4-10	11-21	22-33	34-47	48+	00				03	06	09	12	15	18	21	
N	1.8	10.6	6.3	1.9	.3	.0		20.9	10.7		7.1	19.0	17.4	17.6	17.0	17.6	28.8	31.7
NE	1.0	6.0	4.0	.1	.3	.0		11.5	10.3		.0	12.5	13.5	14.8	4.5	11.0	7.4	11.5
E	.4	1.7	1.9	2.1	.0	.0		6.1	15.5		.0	3.4	6.1	7.7	11.4	7.4	3.8	5.8
SE	.2	1.7	1.4	2.6	1.1	.0		7.2	21.3		8.9	6.0	6.4	10.6	2.3	8.1	6.4	7.7
S	1.0	2.2	2.9	1.3	.9	.5		8.9	17.6		10.7	11.4	12.5	10.6	2.3	8.8	6.4	2.9
SW	.6	3.8	3.6	1.6	1.8	.3		11.8	18.0		44.6	13.6	9.1	10.6	17.0	10.3	10.9	6.7
W	1.1	5.2	3.5	.5	1.6	.5		12.5	16.1		14.3	12.0	12.2	7.7	26.1	14.0	15.1	8.7
NW	1.7	10.8	7.2	1.1	.3	.1		21.1	10.8		14.3	20.1	20.7	20.4	19.3	22.8	21.2	25.0
VAR	.0	.0	.0	.0	.0	.0		.0	.0		.0	.0	.0	.0	.0	.0	.0	.0
CALM	.0	.0	.0	.0	.0	.0		.0	.0		.0	.0	.0	.0	.0	.0	.0	.0
TOT OBS	38	201	148	54	31	7	479		13.9		14	92	82	71	22	68	78	52
TOT PCT	7.9	42.0	30.9	11.3	6.5	1.5		100.0			100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0

TABLE 3A

WIND DIR	WIND SPEED (KNOTS)					TOTAL OBS	PCT FREQ	MEAN SPD	HOUR (GMT)				
	0-6	7-16	17-27	28-40	41+				00	06	12	18	21
N	8.0	9.0	3.0	.8	.0		20.9	10.7	17.5	17.5	17.5	30.0	
NE	4.0	5.5	1.7	.3	.0		11.5	10.3	10.8	15.2	9.4	9.0	
E	1.1	2.0	2.5	.4	.0		6.1	15.5	4.7	6.9	8.3	4.6	
SE	.5	1.9	3.0	1.1	.0		7.2	21.3	6.4	8.3	6.7	6.9	
S	2.0	3.2	1.8	1.4	.0		8.9	17.6	11.3	11.6	7.2	5.0	
SW	2.2	4.3	2.6	1.7	.9		11.8	18.0	17.7	9.8	11.9	9.2	
W	3.3	5.1	1.9	1.2	1.0		12.5	16.1	12.3	10.1	16.9	12.5	
NW	7.4	9.6	3.5	.5	.1		21.1	10.8	19.3	20.6	21.9	22.7	
VAR	.0	.0	.0	.0	.0		.0	.0	.0	.0	.0	.0	
CALM	.0	.0	.0	.0	.0		.0	.0	.0	.0	.0	.0	
TOT OBS	137	194	96	36	16	479		13.9	106	153	90	130	
TOT PCT	28.6	40.5	20.0	7.5	3.3		100.0		100.0	100.0	100.0	100.0	

PERIOD: (PRIMARY) 1888-1969  
(OVER-ALL) 1858-1969

JUNE

AREA 0010 TASMANIA EAST  
42.55 146.3E

TABLE 4

PERCENTAGE FREQUENCY OF WIND SPEED BY HOUR (GMT)

HOUR	CALM	1-3	4-10	WIND SPEED (KNOTS)				MEAN	PCT FREQ	TOTAL OBS
				11-21	22-33	34-47	48+			
00003	.0	4.7	42.5	30.2	10.4	11.3	.9	15.3	100.0	106
06009	.0	8.5	41.2	32.7	11.8	4.6	1.3	13.1	100.0	153
12015	.0	7.8	38.9	31.1	13.3	6.7	2.2	14.9	100.0	90
18021	.0	10.0	44.6	29.2	10.0	4.0	1.5	12.9	100.0	130
TOT	0	38	201	148	54	31	7	13.9		479
PCT	.0	7.9	42.0	30.9	11.3	6.5	1.5	100.0		

TABLE 5

PCT FREQ OF TOTAL CLOUD AMOUNT (EIGHTHS)  
BY WIND DIRECTION

WIND DIR	0-2	3-4	5-7	8 & OBSCD	TOTAL OBS	MEAN CLOUD COVER
N	1.4	2.5	9.1	5.8		5.8
NE	.0	.0	3.6	1.4		6.1
E	.0	1.4	1.4	.0		4.5
SE	1.4	.0	.0	1.8		5.3
S	1.1	.0	1.4	2.5		5.8
SW	4.7	6.2	8.7	4.3		4.7
W	1.1	6.9	11.2	1.4		5.1
NW	1.8	4.7	10.9	2.9		5.0
VAR	.0	.0	.0	.0		.0
CALM	.0	.0	.0	.0		.0
TOT OBS	8	15	32	14	69	5.2
TOT PCT	11.6	21.7	46.4	20.3	100.0	

TABLE 6

PERCENTAGE FREQUENCY OF CEILING HEIGHTS (FT, NH >4/8)  
AND OCCURRENCE OF NH <5/8 BY WIND DIRECTION

000	150	300	600	1000	2000	3500	5000	6500	8000+	NH <5/8 ANY HGT	TOTAL OBS
149	299	599	999	1999	3499	4999	6499	7999			
.0	.0	.0	1.1	4.3	.7	.0	.0	.0	4.0	8.7	
.0	.0	.0	.0	1.4	.0	.0	.0	.0	.0	3.6	
.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	2.9	
.0	.0	.0	1.4	.4	.0	.0	.0	.0	.0	1.4	
.0	.0	.0	.0	1.1	1.4	.0	.0	.0	.0	2.5	
.0	.0	.0	5.1	5.8	1.4	.0	.0	.0	.0	11.2	
.0	.0	.0	2.2	2.5	2.9	1.4	.0	.0	1.1	10.5	
.0	.0	.0	3.3	1.8	.7	.0	.0	.0	.4	14.1	
.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
.0	.0	.0	13.0	17.4	7.2	1.4	.0	.0	5.8	55.1	100.0

TABLE 7

CUMULATIVE PCT FREQ OF SIMULTANEOUS OCCURRENCE  
OF CEILING HEIGHT (NH >4/8) AND VSBY (NM)

CEILING (FEET)	VSBY (NM)							
	>10	>5	>2	>1	>1/2	>1/4	>50YD	>0
>5000	5.6	5.6	5.6	5.6	5.6	5.6	5.6	5.6
>5000	5.6	5.6	5.6	5.6	5.6	5.6	5.6	5.6
>3500	5.6	7.0	7.0	7.0	7.0	7.0	7.0	7.0
>2000	11.3	14.1	14.1	14.1	14.1	14.1	14.1	14.1
>1000	25.4	31.0	31.0	31.0	31.0	31.0	31.0	31.0
>600	32.4	43.7	43.7	43.7	43.7	43.7	43.7	43.7
>300	32.4	43.7	43.7	43.7	43.7	43.7	43.7	43.7
>150	32.4	43.7	43.7	43.7	43.7	43.7	43.7	43.7
>0	32.4	43.7	43.7	43.7	43.7	43.7	43.7	43.7
TOTAL	23	31	31	31	31	31	31	31

TOTAL NUMBER OF OBS: 71

PCT FREQ NH <5/8: 56.3

TABLE 7A

PERCENTAGE FREQ OF LOW CLOUDS (EIGHTHS)

0	1	2	3	4	5	6	7	8 OBSCD	TOTAL OBS
5.2	7.8	15.6	14.3	13.0	7.8	14.3	7.8	14.3	77

PERIOD: (PRIMARY) 1888-1969  
(OVER-ALL) 1858-1969

JUNE

AREA 0010 TASMANIA EAST  
42.95 148.3E

TABLE 8

PERCENT FREQ OF WIND DIRECTION VS OCCURRENCE OR NON-OCCURRENCE OF  
PRECIPITATION WITH VARYING VALUES OF VISIBILITY

VSBY (NM)		N	NE	E	SE	S	SW	W	NW	VAR	CALM	PCT	TOTAL OBS
<1/2	PCP	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
	NO PCP	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
	TOT %	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
1/2<1	PCP	.0	.0	.0	.0	.0	.1	.1	.0	.0	.0	.2	.2
	NO PCP	.5	.9	.9	.5	.0	.0	.0	.0	.0	.0	.0	2.8
	TOT %	.5	.9	.9	.5	.0	.1	.1	.0	.0	.0	.0	3.0
1<2	PCP	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
	NO PCP	.6	.1	.0	.0	.2	.0	.0	.0	.0	.0	.9	.9
	TOT %	.6	.1	.0	.0	.2	.0	.0	.0	.0	.0	.9	.9
2<5	PCP	.0	.0	.2	.2	.2	.0	.2	.2	.0	.0	1.2	1.2
	NO PCP	.0	.0	.0	.0	.0	.0	.5	.0	.0	.0	.5	.5
	TOT %	.0	.0	.2	.2	.2	.0	.7	.2	.0	.0	1.6	1.6
5<10	PCP	2.5	1.4	3.0	2.3	2.0	2.2	.8	1.7	.0	.0	14.9	14.9
	NO PCP	14.2	7.5	2.6	3.7	3.7	4.5	7.2	14.2	.0	.0	57.6	57.6
	TOT %	16.7	8.9	4.5	6.0	5.7	6.8	8.0	15.9	.0	.0	72.5	72.5
10+	PCP	.2	.0	.0	.0	.0	.0	.0	.0	.0	.0	.2	.2
	NO PCP	3.9	1.5	.7	1.2	1.2	3.7	3.7	5.7	.0	.0	21.7	21.7
	TOT %	4.1	1.5	.7	1.2	1.2	3.7	3.7	5.7	.0	.0	21.9	21.9
TOT OBS													
TOT PCT		21.9	11.4	6.4	7.9	7.3	10.6	12.6	21.9	.0	.0	100.0	429

TABLE 9

PERCENT FREQ OF WIND DIRECTION VS WIND SPEED  
WITH VARYING VALUES OF VISIBILITY

VSBY (NM)	SPD KTS	N	NE	E	SE	S	SW	W	NW	VAR	CALM	PCT	TOTAL OBS
<1/2	0-3	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
	4-10	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
	11-21	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
	22+	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
	TOT %	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
1/2<1	0-3	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
	4-10	.2	.2	.0	.2	.0	.0	.0	.0	.0	.0	.7	.7
	11-21	.2	.7	.5	.2	.0	.1	.1	.0	.0	.0	1.9	1.9
	22+	.0	.0	.5	.0	.0	.0	.0	.0	.0	.0	.5	.5
	TOT %	.5	.9	.5	.5	.0	.1	.1	.0	.0	.0	3.0	3.0
1<2	0-3	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
	4-10	.6	.1	.0	.0	.2	.0	.0	.0	.0	.0	.9	.9
	11-21	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
	22+	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
	TOT %	.6	.1	.0	.0	.2	.0	.0	.0	.0	.0	.9	.9
2<5	0-3	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
	4-10	.0	.0	.2	.2	.0	.0	.0	.0	.0	.0	.5	.5
	11-21	.0	.0	.0	.0	.2	.0	.1	.1	.0	.0	.5	.5
	22+	.0	.0	.0	.0	.0	.0	.6	.1	.0	.0	.7	.7
	TOT %	.0	.0	.2	.2	.2	.0	.7	.2	.0	.0	1.6	1.6
5<10	0-3	2.0	1.0	.3	.0	.9	.7	1.0	1.6	.0	.0	7.7	7.7
	4-10	9.1	4.7	1.0	1.0	1.2	2.1	3.4	9.0	.0	.0	31.5	31.5
	11-21	4.1	2.8	1.4	1.1	2.3	2.3	2.3	5.1	.0	.0	21.4	21.4
	22+	1.5	.3	1.7	3.8	1.3	1.6	1.3	.2	.0	.0	11.9	11.9
	TOT %	16.7	8.9	4.5	6.0	5.7	6.8	8.0	15.9	.0	.0	72.5	72.5
10+	0-3	.0	.0	.0	.2	.0	.0	.2	.2	.0	.0	.7	.7
	4-10	2.0	1.0	.6	.3	.8	1.6	2.0	2.7	.0	.0	11.0	11.0
	11-21	1.8	.5	.0	.3	.2	1.1	1.1	2.4	.0	.0	7.5	7.5
	22+	.3	.0	.1	.3	.2	1.0	.4	.3	.0	.0	2.8	2.8
	TOT %	4.1	1.5	.7	1.2	1.2	3.7	3.7	5.7	.0	.0	21.9	21.9
TOT OBS													
TOT PCT		21.9	11.4	6.4	7.9	7.3	10.6	12.6	21.9	.0	.0	100.0	429

PERIOD: (PRIMARY) 1888-1969  
(OVER-ALL) 1858-1969

JUNE

AREA 0010 TASMANIA EAST  
42.55 148.3E

TABLE 10

PERCENT FREQUENCY OF CEILING HEIGHTS (FEET, NH >4/8) AND  
OCCURRENCE OF NH <5/8 BY HOUR

HRUR (GMT)	000 149	150 299	300 599	600 999	1000 1999	2000 3499	3500 4999	5000 6499	6500 7999	8000+	TOTAL	NH <5/8 ANY HGT	TOTAL OBS
00003	.0	.0	.0	7.1	28.6	7.1	.0	.0	.0	7.1	50.0	50.0	14
06009	.0	.0	.0	14.3	19.0	9.5	.0	.0	.0	4.8	47.6	52.4	21
12015	.0	.0	.0	15.0	15.0	5.0	5.0	.0	.0	.0	40.0	60.0	20
18021	.0	.0	.0	10.5	5.3	5.3	.0	.0	.0	10.5	31.6	68.4	19
TOT	0	0	0	9	12	5	1	0	0	4	31	43	74
PCT	.0	.0	.0	12.2	16.2	6.8	1.4	.0	.0	5.4	41.9	58.1	100.0

TABLE 11

PERCENT FREQUENCY VSBY (NM) BY HOUR

HRUR (GMT)	<1/2	1/2<1	1<2	2<5	5<10	10+	TOTAL OBS
00003	.0	3.9	.0	.0	72.7	23.4	77
06009	.0	3.0	1.2	1.8	71.5	22.4	165
12015	.0	4.3	1.1	3.2	63.4	28.0	93
18021	.8	2.3	.8	.8	82.4	13.0	131
TOT	1	15	4	7	341	98	466
PCT	.2	3.2	.9	1.5	73.2	21.0	100.0

TABLE 12

CUMULATIVE PCT FREQ OF RANGES OF VSBY (NM) AND/OR  
CEILING HGT (FEET, NH >4/8), BY HOUR

HRUR (GMT)	<150 <50YD	<600 <1	<1000 <5	1000+ AND 5+	NH <5/8 AND 5+	TOTAL OBS
00003	.0	.0	7.1	42.9	50.0	14
06009	.0	.0	19.0	33.3	47.6	21
12015	.0	.0	22.2	27.8	50.0	18
18021	.0	.0	11.1	22.2	66.7	18
TOT	0	0	11	22	38	71
PCT	.0	.0	15.5	31.0	53.5	100.0

TABLE 13

PERCENT FREQUENCY OF RELATIVE HUMIDITY BY TEMP

TEMP F	0-29	30-39	40-49	50-59	60-69	70-79	80-89	90-100	TOTAL OBS	PCT FREQ
60/64	.0	.0	.0	1.1	.0	1.1	.0	.0	2	2.2
55/59	.0	.0	.0	.0	.0	14.3	14.3	4.4	30	33.0
50/54	.0	.0	1.1	.0	5.5	25.3	14.3	3.3	45	49.5
45/49	.0	.0	.0	.0	4.4	5.5	3.3	1.1	13	14.3
40/44	.0	.0	.0	.0	.0	.0	.0	1.1	1	1.1
TOTAL	0	0	1	1	9	42	29	9	91	100.0
PCT	.0	.0	1.1	1.1	9.9	46.2	31.9	9.9		

TABLE 14

PERCENT FREQUENCY OF WIND DIRECTION BY TEMP

N	NE	E	SE	S	SW	W	NW	VAR	CALM
.0	1.1	.0	.0	.0	.0	1.1	.0	.0	.0
10.2	1.6	.0	1.1	.0	6.0	2.5	11.5	.0	.0
5.2	2.2	.5	3.3	3.3	7.1	12.1	15.7	.0	.0
.0	.0	.0	.0	1.4	4.9	6.3	1.6	.0	.0
.0	.0	.0	.0	.0	1.1	.0	.0	.0	.0
15.4	4.9	.5	4.4	4.7	19.2	22.0	28.8	.0	.0

TABLE 15

MEANS, EXTREMES AND PERCENTILES OF TEMP (DEG F) BY HOUR

HRUR (GMT)	MAX	99%	95%	50%	5%	1%	MIN	MEAN	TOTAL OBS
00003	62	60	58	52	47	42	62	52.3	111
06009	61	60	58	52	47	43	41	52.6	170
12015	59	58	58	51	44	41	41	51.6	96
18021	58	57	57	51	43	40	39	50.9	134
TOT	62	60	58	52	45	41	39	51.9	511

TABLE 16

PERCENT FREQUENCY OF RELATIVE HUMIDITY BY HOUR

HRUR (GMT)	0-29	30-39	60-69	70-79	80-89	90-100	MEAN	TOTAL OBS
00003	.0	5.9	23.5	41.2	23.5	5.9	74	17
06009	.0	3.4	6.9	48.3	31.0	10.3	79	29
12015	.0	.0	4.0	44.0	48.0	4.0	80	25
18021	.0	.0	12.0	44.0	28.0	16.0	79	25
TOT	0	2	10	43	32	9	78	96

JUNE

PERIOD: (PRIMARY) 1888-1969  
(OVER-ALL) 1858-1969

TABLE 17

AREA 0010 TASMANIA EAST  
42.55 148.3EPCT FREQ OF AIR TEMPERATURE (DEG F) AND THE OCCURRENCE OF FOG (WITHOUT PRECIPITATION)  
VS AIR-SEA TEMPERATURE DIFFERENCE (DEG F)

AIR-SEA TMP DIF	37 40	41 44	45 48	49 52	53 56	57 60	61 64	TOT	H FOG	HO FOG
7/8	.0	.0	.0	.0	.0	1.3	.2	7	.0	1.6
6	.0	.0	.0	.0	.2	1.3	.0	7	.0	1.6
5	.0	.0	.0	.0	.9	1.8	.2	13	.0	2.9
4	.0	.0	.0	.0	.4	1.3	.0	8	.0	1.8
3	.0	.0	.0	.2	.7	.2	.0	5	.0	1.1
2	.0	.0	.0	.4	2.7	1.3	.0	20	.0	4.5
1	.0	.0	.0	1.6	2.5	1.3	.0	24	.7	4.7
0	.0	.0	.0	4.7	6.9	2.9	.0	65	1.6	13.0
-1	.0	.0	1.4	4.7	.4	.0	.0	46	.7	9.6
-2	.0	.0	1.3	7.8	4.5	.9	.0	65	.7	13.9
-3	.0	.0	2.0	6.0	2.2	.2	.0	47	.2	10.3
-4	.0	.2	1.6	5.1	2.7	.0	.0	43	.2	9.4
-5	.0	.7	1.3	5.6	.4	.0	.0	36	.4	7.6
-6	.0	.4	1.6	3.6	.4	.0	.0	27	.0	6.0
-7/-8	.0	1.8	2.0	.9	.0	.0	.0	21	.2	4.5
-9/-10	.4	.9	.7	.0	.2	.0	.0	10	.0	2.2
-11/-13	.0	.4	.2	.0	.0	.0	.0	3	.0	.7
TOTAL	2	20	50	182	59	2		447	21	426
PCT	.4	4.5	11.2	40.7	29.5	13.2	.4	100.0	4.7	95.3

PERIOD: (OVER-ALL) 1963-1969

TABLE 18

PCT FREQ OF WIND SPEED (KTS) AND DIRECTION VERSUS SEA HEIGHTS (FT)

HGT	1-3	4-10	11-21	22-33	34-47	48+	PCT	1-3	4-10	11-21	22-33	34-47	48+	PCT
<1	.0	.0	1.4	.0	.0	.0	1.4	.0	.0	.0	.0	.0	.0	.0
1-2	.0	2.7	.0	.0	.0	.0	2.7	.0	1.8	.0	.0	.0	.0	1.8
3-4	.0	.0	10.0	.0	.0	.0	10.0	.0	1.8	2.3	.0	.0	.0	4.1
5-6	.0	.0	3.2	1.8	.0	.0	5.0	.0	.0	.0	.0	.0	.0	.0
7	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
8-9	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
10-11	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
12	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
13-16	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
17-19	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
20-22	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
23-25	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
26-32	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
33-40	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
41-48	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
49-60	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
61-70	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
71-86	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
87+	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
TOT PCT	.0	2.7	14.5	1.8	.0	.0	19.1	.0	3.6	2.3	.0	.0	.0	5.9

HGT	1-3	4-10	11-21	22-33	34-47	48+	PCT	1-3	4-10	11-21	22-33	34-47	48+	PCT
<1	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
1-2	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
3-4	.0	3.6	.0	.0	.0	.0	3.6	.0	.0	.0	.0	.0	.0	.0
5-6	.0	.0	.0	.0	.0	.0	.0	.0	.0	.9	1.8	.0	.0	2.7
7	.0	.0	.0	.0	.0	.0	.0	.0	.0	1.8	.0	.0	.0	1.8
8-9	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
10-11	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
12	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
13-16	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
17-19	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
20-22	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
23-25	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
26-32	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
33-40	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
41-48	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
49-60	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
61-70	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
71-86	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
87+	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
TOT PCT	.0	3.6	.0	.0	.0	.0	3.6	.0	.0	2.7	1.8	.0	.0	4.5



PERIOD: (OVER-ALL) 1963-1969

JUNE

AREA 0010 TASMANIA EAST  
42.55 148.3E

TABLE 18 (CONT)

PCT FREQ OF WIND SPEED (KTS) AND DIRECTION VERSUS SEA HEIGHTS (FT)

HGT	S							PCT	SW							PCT
	1-3	4-10	11-21	22-33	34-47	48+			1-3	4-10	11-21	22-33	34-47	48+		
<1	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.5
1-2	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	1.8	.0	.0	.0	.0	1.8
3-4	.0	1.8	.0	1.4	.0	.0	3.2	.0	.0	1.8	.5	.0	.0	.0	.0	2.7
5-6	.0	.0	2.7	.0	.0	.0	2.7	.0	.0	1.8	4.1	.0	.0	.0	.0	5.9
7	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.5	1.8	.0	.0	.0	2.3
8-9	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	1.8	.0	.0	1.8
10-11	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
12	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	1.8	.0	.0	.0	1.8
13-16	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
17-19	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	1.8	.0	.0	1.8
20-22	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	5.9	.0	.0	5.9
23-25	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
26-32	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
33-40	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
41-48	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
49-60	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
61-70	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
71-86	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
87+	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
TOT PCT	.0	1.8	2.7	1.4	.0	.0	5.9	.0	.0	4.1	6.8	4.1	9.5	.0	.0	24.5

HGT	W							PCT	NW							PCT	TOTAL PCT
	1-3	4-10	11-21	22-33	34-47	48+			1-3	4-10	11-21	22-33	34-47	48+			
<1	.0	1.4	.0	.0	.0	.0	1.4	.0	.0	.0	.5	.0	.0	.0	.0	.5	
1-2	.0	4.1	.0	.0	.0	.0	4.1	.0	.0	5.9	3.6	.0	.0	.0	.0	9.5	
3-4	.0	3.6	1.4	.0	.0	.0	5.0	.0	.0	1.8	5.9	.0	.0	.0	.0	7.7	
5-6	.0	.0	1.4	.0	.0	.0	1.4	.0	.0	.0	.5	.0	.0	.0	.0	.5	
7	.0	.0	1.4	.0	.0	.0	1.4	.0	.0	.0	.0	.0	.0	.0	.0	.0	
8-9	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	1.8	.0	.0	.0	1.8	
10-11	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
12	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
13-16	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
17-19	.0	.0	.0	.0	1.8	.0	1.8	.0	.0	.0	.0	.0	.0	.0	.0	.0	
20-22	.0	.0	.0	.0	1.4	.0	1.4	.0	.0	.0	.0	.0	.0	.0	.0	.0	
23-25	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
26-32	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
33-40	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
41-48	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
49-60	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
61-70	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
71-86	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
87+	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
TOT PCT	.0	9.1	4.1	.0	3.2	.0	16.4	.0	.0	7.7	10.5	1.8	.0	.0	.0	20.0	100.0

WIND SPEED (KTS) VS SEA HEIGHT (FT)

HGT	0-3	4-10	11-21	22-33	34-47	48+	PCT	TOT OBS
<1	.0	3.6	1.8	.0	.0	.0	5.4	
1-2	.0	14.3	5.4	.0	.0	.0	19.6	
3-4	.0	14.3	19.6	1.8	.0	.0	35.7	
5-6	.0	1.8	12.5	3.6	.0	.0	17.9	
7	.0	.0	3.6	1.8	.0	.0	5.4	
8-9	.0	.0	.0	1.8	1.8	.0	3.6	
10-11	.0	.0	.0	.0	.0	.0	.0	
12	.0	.0	.0	1.8	.0	.0	1.8	
13-16	.0	.0	.0	.0	.0	.0	.0	
17-19	.0	.0	.0	.0	3.6	.0	3.6	
20-22	.0	.0	.0	.0	7.1	.0	7.1	
23-25	.0	.0	.0	.0	.0	.0	.0	
26-32	.0	.0	.0	.0	.0	.0	.0	
33-40	.0	.0	.0	.0	.0	.0	.0	
41-48	.0	.0	.0	.0	.0	.0	.0	
49-60	.0	.0	.0	.0	.0	.0	.0	
61-70	.0	.0	.0	.0	.0	.0	.0	
71-86	.0	.0	.0	.0	.0	.0	.0	
87+	.0	.0	.0	.0	.0	.0	.0	
TOT PCT	.0	33.9	42.9	10.7	12.5	.0	100.0	56

PERIOD: (OVER-ALL) 1952-1969

TABLE 19

PERCENT FREQUENCY OF WAVE HEIGHT (FT) VS WAVE PERIOD (SECONDS)

PERIOD (SEC)	<1	1-2	3-4	5-6	7	8-9	10-11	12	13-16	17-19	20-22	23-25	26-32	33-40	41-48	49-60	61-70	71-86	87+	TOTAL	MEAN HGT
<6	.0	6.0	10.4	9.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	17	3
6-7	.0	1.5	5.0	9.0	.0	4.5	1.5	6.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	25	7
8-9	.0	.0	.0	.0	3.0	1.5	3.0	1.5	1.5	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	7	9
10-11	.0	.0	.0	3.0	3.0	.0	.0	.0	.0	1.5	.0	.0	.0	.0	.0	.0	.0	.0	.0	5	8
12-13	.0	.0	.0	1.5	.0	.0	.0	.0	.0	1.5	6.0	.0	.0	.0	.0	.0	.0	.0	.0	5	17
>13	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	0	
INDET	.0	.0	3.0	1.5	1.5	1.5	3.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	7	7
TOTAL	0	5	13	16	11	5	5	5	1	2	4	0	0	0	0	0	0	0	0	67	7
PCT	.0	7.5	19.4	23.9	16.4	7.5	7.5	7.5	1.5	3.0	6.0	.0	.0	.0	.0	.0	.0	.0	.0	100.0	

JULY

PERIOD: (PRIMARY) 1887-1969  
(OVER-ALL) 1870-1969AREA 0010 TASMANIA EAST  
42.55 148.5E

TABLE 1

PERCENT FREQUENCY OF WEATHER OCCURRENCE BY WIND DIRECTION

WIND DIR	PRECIPITATION TYPE							OTHER WEATHER PHENOMENA							
	RAIN	RAIN SHWR	DRZL	FRZG PCPN	SNOW	OTHER FRZN PCPN	HAIL	PCPN AT DB TIME	PCPN PAST HOUR	THOR LTNG	FOG WD PCPN	FOG WD PCPN PAST HR	SMOKE HAZE	SPRAY BLWG DUST	NO SIG WEA
N	1.8	3.6	3.6	.0	.0	.0	.0	9.0	4.5	1.8	.0	.0	.0	.0	84.8
NE	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	100.0
E	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	100.0
SE	8.3	25.0	.0	.0	.0	.0	.0	33.3	.0	.0	.0	.0	.0	.0	66.7
S	12.1	21.2	3.0	.0	.0	.0	.0	36.4	.0	.0	.0	.0	.0	.0	63.6
SW	1.7	18.3	4.4	.0	.0	.0	7.0	31.4	.0	1.7	.0	.0	.0	.0	68.6
W	5.3	13.9	.7	.0	.0	.0	.0	19.8	1.3	4.0	1.3	.0	.0	.0	77.6
NW	1.5	1.5	7.3	.0	.0	.0	.0	10.2	2.2	1.5	1.5	.0	.0	.0	84.7
VAR	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
CALM	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	100.0
TOT PCT	3.7	10.6	3.4	.0	.0	.0	1.2	19.0	1.6	1.9	.6	.0	.0	.0	78.2
TOT OBS:	321														

TABLE 2

PERCENT FREQUENCY OF WEATHER OCCURRENCE BY HOUR

HOUR (GMT)	PRECIPITATION TYPE							OTHER WEATHER PHENOMENA							
	RAIN	RAIN SHWR	DRZL	FRZG PCPN	SNOW	OTHER FRZN PCPN	HAIL	PCPN AT DB TIME	PCPN PAST HOUR	THOR LTNG	FOG WD PCPN	FOG WD PCPN PAST HR	SMOKE HAZE	SPRAY BLWG DUST	NO SIG WEA
00603	3.6	16.4	1.8	.0	.0	.0	.0	21.8	.0	.0	.0	.0	.0	.0	78.2
06609	3.1	8.2	3.1	.0	.0	.0	1.0	15.5	1.0	1.0	1.0	.0	.0	.0	82.5
12615	2.6	3.8	1.3	.0	.0	.0	1.3	9.0	3.8	2.6	1.3	.0	.0	.0	84.6
18621	5.1	14.3	6.1	.0	.0	.0	2.0	27.6	1.0	3.1	.0	.0	.0	.0	70.4
TOT PCT	3.7	10.4	3.4	.0	.0	.0	1.2	18.6	1.5	1.8	.6	.0	.0	.0	78.7
TOT OBS:	328														

TABLE 3

PERCENTAGE FREQUENCY OF WIND DIRECTION BY SPEED AND BY HOUR

WIND DIR	WIND SPEED (KNOTS)							TOTAL OBS	PCT FREQ	MEAN SPD	HOUR (GMT)							
	0-3	4-10	11-21	22-33	34-47	48+					00	03	06	09	12	15	18	21
N	.5	7.0	7.4	2.0	.2	.0		17.0	13.1		19.3	15.1	12.5	15.4	19.5	14.0	23.9	16.2
NE	.0	2.3	1.6	.3	.1	.0		4.3	11.9		1.1	3.2	2.4	6.4	7.9	3.5	7.1	.0
E	.3	.8	.1	.9	.0	.0		2.1	15.5		.0	4.0	.0	1.3	4.9	3.5	.0	4.4
SE	.0	1.7	.7	1.1	.1	.0		3.6	17.1		13.6	4.0	4.8	5.1	.0	2.3	2.1	1.5
S	.7	2.8	3.6	2.5	.4	.0		10.0	15.8		4.5	9.5	17.7	9.0	4.3	10.5	5.4	17.5
SW	.1	2.3	7.1	4.5	2.8	.5		17.4	22.0		19.3	17.5	12.1	26.9	17.1	23.3	14.3	14.7
W	.7	7.4	8.6	4.5	1.9	.3		23.5	17.0		29.5	28.6	22.6	11.5	18.9	20.9	23.5	33.8
NW	.3	4.8	9.4	3.6	2.2	.0		20.4	18.5		12.5	18.3	24.6	21.8	27.4	19.8	20.7	11.8
VAR	.0	.0	.0	.0	.0	.0		.0	.0		.0	.0	.0	.0	.0	.0	.0	.0
CALM	1.6							1.6	.0		.0	.0	3.2	2.6	.0	2.3	2.9	.0
TOT OBS	16	109	144	73	29	3	374		16.9		22	63	62	39	41	43	70	34
TOT PCT	4.3	29.1	38.5	19.5	7.8	.8		100.0			100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0

TABLE 3A

WIND DIR	WIND SPEED (KNOTS)							TOTAL OBS	PCT FREQ	MEAN SPD	HOUR (GMT)							
	0-6	7-16	17-27	28-40	41+						00	03	06	09	12	15	18	21
N	2.8	9.5	4.0	.7	.0			17.0	13.1		16.2	13.6	16.7	21.4				
NE	1.2	1.8	1.2	.1	.0			4.3	11.9		2.6	4.0	5.7	4.8				
E	.5	.5	.8	.3	.0			2.1	15.5		2.9	.5	4.2	1.4				
SE	.5	1.2	.8	1.1	.0			3.6	17.1		6.5	5.0	1.2	1.9				
S	2.1	3.3	3.0	1.5	.0			10.0	15.8		8.2	14.4	7.4	9.4				
SW	1.2	4.8	5.7	4.9	.8			17.4	22.0		17.9	17.8	20.2	14.4				
W	2.6	11.0	5.4	3.9	.5			23.5	17.0		28.8	18.3	19.9	26.9				
NW	1.5	8.5	6.8	1.4	2.1			20.4	18.5		16.8	23.5	23.5	17.8				
VAR	.0	.0	.0	.0	.0			.0	.0		.0	.0	.0	.0				
CALM	1.6							1.6	.0		.0	3.0	1.2	1.9				
TOT OBS	53	152	104	52	13	374			16.9		85	101	84	104				
TOT PCT	14.2	40.6	27.8	13.9	3.5			100.0			100.0	100.0	100.0	100.0				

PERIOD: (PRIMARY) 1887-1969  
(OVER-ALL) 1870-1969

JULY

AREA 0010 TASMANIA EAST  
42.55 148.5E

TABLE 4

PERCENTAGE FREQUENCY OF WIND SPEED BY HOUR (GMT)

HOUR	CALM	1-3	4-10	WIND SPEED (KNOTS)			48+	MEAN	PCT FREQ	TOTAL OBS
				11-21	22-33	34-47				
00003	.0	1.2	29.4	37.6	20.0	10.6	1.2	18.3	100.0	85
06009	3.0	2.0	35.6	36.6	16.8	5.9	.0	15.4	100.0	101
12015	1.2	3.6	26.2	39.3	21.4	8.2	.0	16.9	100.0	104
18021	1.9	3.8	25.0	40.4	20.2	6.7	1.9	17.1	100.0	101
TOT	6	10	109	144	73	29	3	16.9		374
PCT	1.6	2.7	29.1	38.5	19.5	7.8	.8		100.0	

TABLE 5

PCT FREQ OF TOTAL CLOUD AMOUNT (EIGHTHS)  
BY WIND DIRECTION

WIND DIR	0-2	3-4	5-7	8 & 10	TOTAL CLOUD OBS	MEAN CLOUD COVER
N	4.2	1.6	8.8	4.4		5.0
NE	.9	.2	3.9	.0		5.2
E	.0	.0	.9	.9		6.5
SE	.0	1.9	.9	.9		5.5
S	1.9	.0	6.5	.9		5.4
SW	1.9	2.5	6.9	.9		4.9
W	8.6	4.9	6.9	1.4		3.6
NW	6.7	3.9	10.4	3.0		4.6
VAR	.0	.0	.0	.0		.0
CALM	.9	2.8	.0	.0		2.5
TOT OBS	27	19	49	13	108	4.6
TOT PCT	25.0	17.6	45.4	12.0	100.0	

TABLE 6

PERCENTAGE FREQUENCY OF CEILING HEIGHTS (FT; NH >4/8)  
AND OCCURRENCE OF NH <5/8 BY WIND DIRECTION

000	150	300	600	1000	2000	3500	5000	6500	8000+	NH <5/8	TOTAL
149	299	599	999	1999	3499	4999	6499	7999		ANY HGT	OBS
.0	.0	.0	1.6	3.2	1.9	.0	.0	.0	.9	11.3	
.0	.0	.0	.0	1.9	.9	.0	.0	.0	.0	2.3	
.0	.0	.0	.0	.9	.9	.0	.0	.0	.0	.0	
.0	.0	.0	.0	.9	.9	.0	.0	.0	.0	1.9	
.0	.0	.0	1.4	4.6	1.4	.0	.0	.0	.0	1.9	
.0	.0	.0	3.2	2.5	.7	.5	.0	.0	.0	4.9	
.0	.0	.0	.0	3.0	1.6	.5	.0	.0	.0	15.4	
.0	.0	.0	3.0	4.2	.0	.9	.0	.0	.0	15.0	
.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	3.7	
.0	.0	.0	10	23	9	2	.0	.0	1	63	108
.0	.0	.0	9.3	21.3	8.3	1.9	.0	.0	.9	58.3	100.0

TABLE 7

CUMULATIVE PCT FREQ OF SIMULTANEOUS OCCURRENCE  
OF CEILING HEIGHT (NH >4/8) AND VSBY (NM)

CEILING (FEET)	VSBY (NM)							
	>10	>5	>2	>1	>1/2	>1/4	>50YD	>0
>6500	.9	.9	.9	.9	.9	.9	.9	.9
>4000	.9	.9	.9	.9	.9	.9	.9	.9
>3500	1.9	2.8	2.8	2.8	2.8	2.8	2.8	2.8
>2000	9.3	11.1	11.1	11.1	11.1	11.1	11.1	11.1
>1000	29.6	32.4	32.4	32.4	32.4	32.4	32.4	32.4
>600	35.2	40.7	41.7	41.7	41.7	41.7	41.7	41.7
>300	35.2	40.7	41.7	41.7	41.7	41.7	41.7	41.7
>150	35.2	40.7	41.7	41.7	41.7	41.7	41.7	41.7
>0	35.2	40.7	41.7	41.7	41.7	41.7	41.7	41.7
TOTAL	38	44	45	45	45	45	45	45

TOTAL NUMBER OF OBS: 108

PCT FREQ NH <5/8: 58.3

TABLE 7A

PERCENTAGE FREQ OF LOW CLOUDS (EIGHTHS)

0	1	2	3	4	5	6	7	8	DBSCD	TOTAL OBS
9.6	13.0	12.2	15.7	7.8	12.2	12.2	11.3	6.1	.0	115

PERIOD: (PRIMARY) 1887-1969  
(OVER-ALL) 1870-1969

JULY

AREA 0010 TASMANIA EAST  
42.55 148.5E

TABLE 8

PERCENT FREQ OF WIND DIRECTION VS OCCURRENCE OR NON-OCCURRENCE OF  
PRECIPITATION WITH VARYING VALUES OF VISIBILITY

VSBY (NM)		N	NE	E	SE	S	SW	W	NW	VAR	CALM	PCT	TOTAL OBS
<1/2	PCP	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
	NO PCP	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
	TOT %	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
1/2<1	PCP	.0	.0	.0	.0	.0	.3	.0	.0	.0	.0	.3	
	NO PCP	.0	.0	.0	.0	.0	.3	.3	.3	.0	.0	.6	
	TOT %	.0	.0	.0	.0	.0	.3	.3	.3	.0	.0	.9	
1<2	PCP	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
	NO PCP	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
	TOT %	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
2<5	PCP	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
	NO PCP	.0	.0	.0	.0	.0	.3	.0	.0	.0	.0	.3	
	TOT %	.0	.0	.0	.0	.0	.3	.0	.0	.0	.0	.3	
5<10	PCP	.6	.0	.0	.9	3.1	4.5	4.2	2.2	.0	.0	15.6	
	NO PCP	6.5	.3	.3	.9	3.3	7.0	10.6	9.3	.0	.0	38.3	
	TOT %	7.2	.3	.3	1.9	6.4	11.5	14.8	11.5	.0	.0	53.9	
10+	PCP	.9	.0	.0	.3	.6	.8	.5	.0	.0	.0	3.1	
	NO PCP	9.3	2.6	1.2	1.6	3.3	4.9	8.0	9.6	.0	1.2	41.7	
	TOT %	10.2	2.6	1.2	1.9	3.9	5.7	8.5	9.6	.0	1.2	44.9	
TOT OBS													321
TOT PCT		17.4	3.0	1.6	3.7	10.3	17.8	23.6	21.4	.0	1.2	100.0	

TABLE 9

PERCENT FREQ OF WIND DIRECTION VS WIND SPEED  
WITH VARYING VALUES OF VISIBILITY

VSBY (NM)	SPD KTS	N	NE	E	SE	S	SW	W	NW	VAR	CALM	PCT	TOTAL OBS
<1/2	0-3	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
	4-10	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
	11-21	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
	22+	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
	TOT %	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
1/2<1	0-3	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
	4-10	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
	11-21	.0	.0	.0	.0	.0	.3	.3	.3	.0	.0	.9	
	22+	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
	TOT %	.0	.0	.0	.0	.0	.3	.3	.3	.0	.0	.9	
1<2	0-3	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
	4-10	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
	11-21	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
	22+	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
	TOT %	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
2<5	0-3	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
	4-10	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
	11-21	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
	22+	.0	.0	.2	.2	.0	.3	.0	.0	.0	.0	.6	
	TOT %	.0	.0	.2	.2	.0	.3	.0	.0	.0	.0	.6	
5<10	0-3	.3	.0	.0	.0	.0	.0	.3	.3	.0	.0	.9	
	4-10	3.6	.3	.0	.3	1.9	.9	4.6	2.6	.0	.0	14.2	
	11-21	1.9	.0	.0	.3	2.7	6.3	3.9	4.8	.0	.0	19.8	
	22+	1.4	.0	.3	1.2	1.8	4.3	5.9	3.7	.0	.0	18.6	
	TOT %	7.1	.3	.3	1.9	6.3	11.5	14.7	11.5	.0	.0	53.6	
10+	0-3	.3	.0	.3	.0	.6	.0	.2	.1	.0	1.2	2.8	
	4-10	3.7	1.8	.5	1.5	1.1	1.6	3.1	2.5	.0	.0	15.8	
	11-21	5.6	.8	.2	.3	1.0	1.3	4.4	5.0	.0	.0	18.6	
	22+	.9	.1	.3	.0	1.2	2.7	.7	1.9	.0	.0	7.7	
	TOT %	10.4	2.6	1.2	1.9	3.9	5.7	8.4	9.5	.0	1.2	44.9	
TOT OBS													323
TOT PCT		17.6	2.9	1.7	3.9	10.2	17.7	23.5	21.3	.0	1.2	100.0	

JULY

PERIOD: (PRIMARY) 1887-1969  
(OVER-ALL) 1870-1969AREA 0010 TASMANIA EAST  
42.55 148.5E

TABLE 10

PERCENT FREQUENCY OF CEILING HEIGHTS (FEET) NH >4/8) AND  
OCCURRENCE OF NH <3/8 BY HOUR

HOURL (GMT)	000 149	150 299	300 599	600 999	1000 1999	2000 3499	3500 4999	5000 6499	6500 7999	8000+	TOTAL	NH <3/8 ANY HGT	TOTAL OBS
00003	.0	.0	.0	4.5	18.2	9.1	.0	.0	.0	.0	31.8	68.2	22
06009	.0	.0	.0	13.0	8.7	8.7	.0	.0	.0	.0	39.1	60.9	23
12015	.0	.0	.0	10.8	27.0	8.1	.0	.0	.0	2.7	48.6	51.4	37
18021	.0	.0	.0	6.7	23.3	6.7	.0	.0	.0	.0	36.7	63.3	30
TOT	0	0	0	10	23	9	2	0	0	1	45	67	112
PCT	.0	.0	.0	8.9	20.5	8.0	1.6	.0	.0	.9	40.2	59.8	100.0

TABLE 11

PERCENT FREQUENCY VSBY (NM) BY HOUR

HOURL (GMT)	<1/2	1/2<1	1<2	2<5	5<10	10+	TOTAL OBS
00003	.0	.0	.0	1.8	43.6	54.5	55
06009	.0	1.0	.0	.0	66.3	32.7	98
12015	.0	1.3	.0	1.3	42.5	55.0	80
18021	.0	1.0	.0	.0	58.2	40.8	98
TOT	0	3	0	2	180	146	331
PCT	.0	.9	.0	.6	54.4	44.1	100.0

TABLE 12

CUMULATIVE PCT FREQ OF RANGES OF VSBY (NM) AND/OR  
CEILING HGT (FEET) NH >4/8) BY HOUR

HOURL (GMT)	<150 <50YD	<600 <1	<1000 <5	1000+ AND 5+	NH <3/8 AND 5+	TOTAL OBS
00003	.0	.0	4.8	28.6	66.7	21
06009	.0	.0	13.0	26.1	60.9	23
12015	.0	.0	11.1	38.9	50.0	36
18021	.0	.0	7.1	32.1	60.7	28
TOT	0	0	10	35	63	108
PCT	.0	.0	9.3	32.4	58.3	100.0

TABLE 13

PERCENT FREQUENCY OF RELATIVE HUMIDITY BY TEMP

TEMP F	0-29	30-39	40-49	50-59	60-69	70-79	80-89	90-100	TOTAL OBS	PCT FREQ
60/64	.0	.0	.0	.0	.7	.0	.0	.0	1	.7
55/59	.0	.0	.0	.7	5.0	7.9	6.5	2.9	32	23.0
50/54	.0	.0	.0	3.6	11.5	16.5	21.6	12.9	92	66.2
45/49	.0	.0	.0	.0	2.9	2.2	2.9	.7	12	8.6
40/44	.0	.0	.0	.0	.0	.7	.7	.0	2	1.4
TOTAL	0	0	0	6	28	38	44	23	139	100.0
PCT	.0	.0	.0	4.3	20.1	27.3	31.7	16.5		

TABLE 14

PERCENT FREQUENCY OF WIND DIRECTION BY TEMP

	N	NE	E	SE	S	SW	W	NW	VAR	CALM
60/64	.5	.0	.0	.0	.0	.0	.0	.2	.0	.0
55/59	4.3	.7	.0	.0	1.3	1.6	4.5	10.6	.0	.0
50/54	13.8	3.6	.7	3.6	7.0	8.3	15.1	11.9	.0	2.2
45/49	.0	.0	.7	1.4	1.4	3.2	1.1	.0	.0	.7
40/44	.0	.0	.0	.0	.7	.7	.0	.0	.0	.0
TOTAL	18.7	4.3	1.4	5.0	10.4	13.8	20.7	22.7	.0	2.9

TABLE 15

MEANS, EXTREMES AND PERCENTILES OF TEMP (DEG F) BY HOUR

HOURL (GMT)	MAX	99%	95%	50%	5%	1%	MIN	MEAN	TOTAL OBS
00003	57	56	56	52	46	41	41	51.6	86
06009	59	58	57	51	45	41	41	51.6	106
12015	59	58	56	52	47	41	41	51.6	85
18021	60	59	56	51	45	43	43	50.8	104
TOT	60	59	56	51	46	41	41	51.4	381

TABLE 16

PERCENT FREQUENCY OF RELATIVE HUMIDITY BY HOUR

HOURL (GMT)	0-29	30-39	40-49	50-59	60-69	70-79	80-89	90-100	MEAN	TOTAL OBS
00003	.0	.0	.0	.0	.7	.0	.0	.0	4.3	23
06009	.0	11.8	14.7	26.5	23.5	23.5	78	34		
12015	.0	4.3	23.9	15.2	39.1	17.4	80	46		
18021	.0	.0	22.2	27.8	33.3	16.7	79	36		
TOT	0	6	28	38	44	23	78	139		



JULY

PERIOD: (PRIMARY) 1887-1969  
(OVER-ALL) 1870-1969AREA 0010 TASMANIA EAST  
42.55 148.5E

TABLE 17

PCT FREQ OF AIR TEMPERATURE (DEG F) AND THE OCCURRENCE OF FOG (WITHOUT PRECIPITATION)  
VS AIR-SEA TEMPERATURE DIFFERENCE (DEG F)

AIR-SEA TMP DIF	41 44	45 48	49 52	53 56	57 60	TOT	W FOG	NO FOG
9/10	.0	.0	.0	.0	.3	1	.0	.3
6	.0	.0	.0	.3	.0	1	.0	.3
5	.0	.0	.0	.6	.3	3	.0	1.0
4	.0	.0	.0	.3	.3	2	.0	.6
3	.0	.0	.3	.6	.3	4	.0	1.3
2	.0	.0	1.0	4.5	.6	19	.0	6.1
1	.0	.0	1.9	3.2	.6	18	.0	5.8
0	.0	.0	2.6	7.4	.6	33	.0	10.6
-1	.0	.6	8.1	4.2	.0	40	.0	12.9
-2	.0	.3	13.2	3.5	.3	54	.3	17.1
-3	.0	1.0	11.9	3.9	.0	32	.3	16.5
-4	.3	2.6	7.4	.6	.0	34	.0	11.0
-5	.6	2.3	3.2	.0	.0	19	.0	6.1
-6	.3	2.3	1.3	.3	.0	13	.0	4.2
-7/-8	.6	1.9	1.6	.0	.0	13	.0	4.2
-9/-10	.0	.0	.6	.0	.0	2	.0	.6
-11/-13	.3	.0	.0	.0	.0	1	.0	.3
-14/-16	.3	.0	.0	.0	.0	1	.0	.3
TOTAL	8		165		11	310	2	308
PCT	2.6	11.0	53.2	29.7	3.5	100.0	.6	99.4

PERIOD: (OVER-ALL) 1963-1969

TABLE 18

PCT FREQ OF WIND SPEED (KTS) AND DIRECTION VERSUS SEA HEIGHTS (FT)

HGT	1-3	4-10	11-21	22-33	34-47	48+	PCT	1-3	4-10	11-21	22-33	34-47	48+	PCT
<1	.0	1.0	.0	.0	.0	.0	1.0	.0	1.0	.0	.0	.0	.0	1.0
1-2	1.0	4.7	2.9	.0	.0	.0	8.6	.0	1.3	1.0	.0	.0	.0	2.3
3-4	.0	1.6	2.6	.0	.0	.0	4.2	.0	1.0	1.0	.0	.0	.0	2.1
5-6	.0	.0	2.6	.0	.8	.0	3.4	.0	.0	.0	.0	.3	.0	.3
7	.0	.0	2.6	.0	.0	.0	2.6	.0	.0	.0	.0	.0	.0	.0
8-9	.0	.0	.8	.0	.0	.0	.8	.0	.0	.0	.0	.0	.0	.0
10-11	.0	.0	.0	1.0	.0	.0	1.0	.0	.0	.0	.0	.0	.0	.0
12	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
13-16	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
17-19	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
20-22	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
23-25	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
26-32	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
33-40	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
41-48	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
49-60	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
61-70	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
71-86	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
87+	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
TOT PCT	1.0	7.3	11.5	1.0	.8	.0	21.6	.0	3.4	2.1	.0	.3	.0	5.7

HGT	1-3	4-10	11-21	22-33	34-47	48+	PCT	1-3	4-10	11-21	22-33	34-47	48+	PCT
<1	.0	.0	.0	.0	.0	.0	.0	.0	1.0	.0	.0	.0	.0	1.0
1-2	.0	1.0	.0	.0	.0	.0	1.0	.0	1.0	.0	.0	.0	.0	1.0
3-4	.0	.0	.0	.0	.0	.0	.0	.0	1.0	1.0	.0	.0	.0	2.1
5-6	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
7	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
8-9	1.0	.0	.0	.0	.0	.0	1.0	.0	.0	.0	.0	.0	.0	.0
10-11	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
12	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
13-16	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
17-19	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
20-22	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
23-25	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
26-32	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
33-40	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
41-48	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
49-60	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
61-70	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
71-86	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
87+	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
TOT PCT	1.0	1.0	.0	.0	.0	.0	2.1	.0	3.1	1.0	.0	.0	.0	4.2

PERIOD: (OVER-ALL) 1963-1969

JULY

AREA 0010 TASMANIA EAST  
42.55 148.5E

TABLE 18 (CONT)

PCT FREQ OF WIND SPEED (KTS) AND DIRECTION VERSUS SEA HEIGHTS (FT)

HGT	S							SW							PCT
	1-3	4-10	11-21	22-33	34-47	48+	PCT	1-3	4-10	11-21	22-33	34-47	48+	PCT	
<1	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
1-2	1.0	1.0	.8	.0	.0	.0	2.9	.0	.3	.5	.0	.0	.0	.0	.8
3-4	.0	.0	1.0	.0	.0	.0	1.0	.0	.0	1.6	.0	.0	.0	.0	1.6
5-6	.0	.0	.0	.0	.0	.0	.0	.0	1.0	.5	.0	.0	.0	.0	1.6
7	.0	.0	1.0	.0	.0	.0	1.0	.0	.0	.0	2.1	1.0	.0	.0	3.1
8-9	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	1.0	1.0	.0	.0	2.1
10-11	.0	.0	.0	.8	.0	.0	.8	.0	.0	.0	.3	1.0	.0	.0	1.3
12	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	1.0	.0	.0	.0	1.0
13-16	.0	.0	.0	.8	.0	.0	.8	.0	1.0	.0	.3	.0	.0	.0	1.3
17-19	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	1.0	.0	.0	1.0
20-22	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
23-25	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
26-32	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
33-40	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
41-48	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
49-60	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
61-70	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
71-86	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
87+	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
TOT PCT	1.0	1.0	2.9	1.6	.0	.0	6.5	.0	2.3	2.6	4.7	4.2	.0	.0	13.8

HGT	W							NW							PCT	TOTAL PCT
	1-3	4-10	11-21	22-33	34-47	48+	PCT	1-3	4-10	11-21	22-33	34-47	48+	PCT		
<1	.0	.0	.0	.0	.0	.0	.0	.0	.0	1.0	.0	.0	.0	.0	1.0	
1-2	.8	2.6	.8	.0	.0	.0	4.2	.3	2.6	2.3	.0	.0	.0	.0	5.2	
3-4	.0	1.0	4.7	.0	.0	.0	5.7	.0	1.6	5.7	.0	.0	.0	.0	7.3	
5-6	.0	.0	5.5	1.0	.0	.0	6.5	.0	.0	3.9	1.0	.0	.0	.0	4.9	
7	.0	.0	.0	.0	.0	.0	.0	.0	.0	.5	1.0	.0	.0	.0	1.6	
8-9	.0	.0	.0	1.0	.0	.0	1.0	.0	.0	.3	1.0	.0	.0	.0	1.3	
10-11	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	2.1	.0	.0	.0	2.1	
12	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
13-16	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
17-19	.0	.0	.0	.0	.8	.0	.8	.0	.0	.0	.0	.3	.0	.0	.3	
20-22	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
23-25	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
26-32	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
33-40	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
41-48	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
49-60	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
61-70	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
71-86	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
87+	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
TOT PCT	.8	3.6	10.9	2.1	.8	.0	18.2	.3	4.2	13.8	5.2	.3	.0	.0	23.7	95.8

WIND SPEED (KTS) VS SEA HEIGHT (FT)

HGT	0-3	4-10	11-21	22-33	34-47	48+	PCT	TOT OBS
<1	4.2	3.1	1.0	.0	.0	.0	8.3	
1-2	3.1	14.6	8.3	.0	.0	.0	26.0	
3-4	.0	8.3	17.7	.0	.0	.0	26.0	
5-6	.0	1.0	12.5	2.1	1.0	.0	16.7	
7	.0	.0	4.2	3.1	1.0	.0	8.3	
8-9	1.0	.0	1.0	3.1	1.0	.0	6.3	
10-11	.0	.0	.0	4.2	1.0	.0	5.2	
12	.0	.0	.0	1.0	.0	.0	1.0	
13-16	.0	1.0	.0	1.0	.0	.0	2.1	
17-19	.0	.0	.0	.0	2.1	.0	2.1	
20-22	.0	.0	.0	.0	.0	.0	.0	
23-25	.0	.0	.0	.0	.0	.0	.0	
26-32	.0	.0	.0	.0	.0	.0	.0	
33-40	.0	.0	.0	.0	.0	.0	.0	
41-48	.0	.0	.0	.0	.0	.0	.0	
49-60	.0	.0	.0	.0	.0	.0	.0	
61-70	.0	.0	.0	.0	.0	.0	.0	
71-86	.0	.0	.0	.0	.0	.0	.0	
87+	.0	.0	.0	.0	.0	.0	.0	
TOT PCT	8.3	26.0	44.8	14.6	6.3	.0	100.0	96

PERIOD: (OVER-ALL) 1950-1969

TABLE 19

PERCENT FREQUENCY OF WAVE HEIGHT (FT) VS WAVE PERIOD (SECONDS)

PERIOD (SEC)	<1	1-2	3-4	5-6	7	8-9	10-11	12	13-16	17-19	20-22	23-25	26-32	33-40	41-48	49-60	61-70	71-86	87+	TOTAL	MEAN HGT
<6	.0	7.7	8.7	3.8	1.9	1.0	1.0	.0	1.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	26	4
6-7	.0	1.0	4.8	6.7	4.8	6.7	1.9	1.0	1.9	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	30	7
8-9	.0	.0	2.9	3.8	4.8	4.8	2.9	1.9	1.0	1.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	24	8
10-11	.0	.0	.0	1.9	4.8	1.0	1.9	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	15	7
12-13	.0	.0	.0	.0	.0	.0	.0	1.0	1.9	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	3	12
>13	.0	.0	.0	1.0	.0	.0	.0	.0	1.0	.0	1.0	.0	.0	.0	.0	.0	.0	.0	.0	3	14
INDET	1.0	.0	2.9	.0	1.0	1.9	1.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	8	5
TOTAL	1	9	20	18	18	16	9	4	7	1	1	0	0	0	0	0	0	0	0	104	7
PCT	1.0	8.7	19.2	17.3	17.3	15.4	8.7	3.8	6.7	1.0	1.0	.0	.0	.0	.0	.0	.0	.0	.0	100.0	

PERIOD: (PRIMARY) 1890-1969  
(OVER-ALL) 1860-1969

AUGUST

AREA 0010 TASMANIA EAST  
42.65 148.7E

TABLE 1

PERCENT FREQUENCY OF WEATHER OCCURRENCE BY WIND DIRECTION

WIND DIR	PRECIPITATION TYPE							OTHER WEATHER PHENOMENA						
	RAIN	RAIN SHWR	DRZL	FRZG PCPN	SNOW	OTHER FRZN PCPN	HAIL	PCPN AT DB TIME	PCPN PAST HOUR	THDR LTNG	FOG PCPN	FOG WD PCPN PAST HR	SMOKE HAZE	SPRAY BLWG DUST SIG WEA
N	5.4	8.2	.0	.0	.0	.0	.0	13.6	.0	.0	2.7	.0	.0	.0 83.7
NE	.0	7.3	.0	.0	.0	.0	.0	7.3	7.3	.0	10.9	.0	.0	.0 74.5
E	.0	28.6	.0	.0	.0	.0	.0	28.6	.0	.0	.0	.0	.0	.0 71.4
SE	.0	12.0	3.4	.0	.0	.0	.0	15.4	.0	.0	10.3	.0	.0	.0 74.4
S	5.8	10.1	8.6	.0	.0	.0	.0	24.5	.0	.0	.0	.0	.0	.0 75.5
SW	2.4	13.7	.0	.0	.0	.0	2.4	18.5	1.6	3.2	1.0	.0	.0	.0 78.3
W	5.2	15.6	.0	.0	.0	.0	3.1	24.0	1.6	7.8	2.1	.0	.0	.0 70.8
NW	2.6	7.9	.0	.0	.0	.0	2.6	13.2	.7	.7	1.3	.0	.0	.0 84.1
VAR	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0 .0
CALM	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0 .0
TOT PCT	3.3	12.1	1.5	.0	.0	.0	1.5	18.3	1.1	2.2	2.9	.0	.0	.0 77.3
TOT OBS:	273													

TABLE 2

PERCENT FREQUENCY OF WEATHER OCCURRENCE BY HOUR

HOUR (GMT)	PRECIPITATION TYPE							OTHER WEATHER PHENOMENA						
	RAIN	RAIN SHWR	DRZL	FRZG PCPN	SNOW	OTHER FRZN PCPN	HAIL	PCPN AT DB TIME	PCPN PAST HOUR	THDR LTNG	FOG PCPN	FOG WD PCPN PAST HR	SMOKE HAZE	SPRAY BLWG DUST SIG WEA
00003	.0	7.0	2.3	.0	.0	.0	4.7	14.0	2.3	.0	.0	.0	.0	.0 83.7
06009	2.2	10.1	2.2	.0	.0	.0	.0	14.6	2.2	1.1	3.4	.0	.0	.0 79.8
12015	4.5	16.4	.0	.0	.0	.0	.0	20.9	.0	3.0	.0	.0	.0	.0 77.6
18021	5.2	13.0	1.3	.0	.0	.0	2.6	22.1	.0	3.9	6.5	.0	.0	.0 71.4
TOT PCT	3.3	12.0	1.4	.0	.0	.0	1.4	18.1	1.1	2.2	2.9	.0	.0	.0 77.5
TOT OBS:	276													

TABLE 3

PERCENTAGE FREQUENCY OF WIND DIRECTION BY SPEED AND BY HOUR

WIND DIR	WIND SPEED (KNOTS)							TOTAL OBS	PCT FREQ	MEAN SPD	HOUR (GMT)							
	0-3	4-10	11-21	22-33	34-47	48+					00	03	06	09	12	15	18	21
N	.0	4.1	6.9	1.8	.2	.2		13.1	15.2		10.0	13.9	14.1	15.5	15.6	11.1	10.2	13.8
NE	.3	1.5	2.8	.2	.0	.0		4.8	12.7		10.0	.9	6.5	7.1	1.0	6.7	2.0	8.6
E	.3	.7	1.2	1.3	.0	.0		3.5	17.3		.0	3.7	6.5	4.8	4.2	3.3	.0	3.4
SE	.3	3.0	4.1	3.0	.0	.0		10.5	16.6		10.0	10.2	10.9	8.3	9.4	13.3	11.2	8.6
S	.0	2.6	5.6	2.7	1.3	.2		12.3	18.7		27.5	7.4	15.2	7.1	11.5	10.0	16.8	15.5
SW	.3	4.8	10.1	6.1	1.7	.2		23.2	18.8		22.5	22.2	23.4	27.4	20.8	21.1	21.9	25.9
W	.3	5.2	6.9	3.8	1.2	.0		17.4	16.2		17.5	21.3	12.0	19.0	11.5	20.0	17.3	17.2
NW	.3	5.6	6.8	.8	1.0	.2		14.6	15.1		2.5	16.7	11.4	10.7	26.0	14.4	20.4	6.9
VAR	.0	.0	.0	.0	.0	.0		.0	.0		.0	.0	.0	.0	.0	.0	.0	.0
CALM	.7							.7	.0		10	3.7	.0	.0	.0	.0	.0	.0
TOT OBS	8	82	132	59	16	2	299		16.6		10	54	46	42	24	45	49	29
TOT PCT	2.7	27.4	44.1	19.7	5.4	.7		100.0			100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0

TABLE 3A

WIND DIR	WIND SPEED (KNOTS)					TOTAL OBS	PCT FREQ	MEAN SPD	HOUR (GMT)				
	0-6	7-16	17-27	28-40	41+				00	06	12	18	21
N	1.8	5.8	4.5	.8	.2		13.1	15.2	13.3	14.8	12.7	11.5	
NE	.7	2.4	1.7	.0	.0		4.8	12.7	2.3	6.8	4.7	4.5	
E	.8	1.2	.3	1.2	.0		3.5	17.3	3.1	5.7	3.6	1.3	
SE	.8	3.9	4.2	1.5	.0		10.5	16.6	10.2	9.7	12.0	10.3	
S	.7	5.0	4.1	2.2	.3		12.3	18.7	10.5	11.4	10.5	16.3	
SW	1.5	9.1	7.9	4.0	.7		23.2	18.8	22.3	25.3	21.0	23.4	
W	3.0	7.0	5.0	2.0	.3		17.4	16.2	20.7	15.3	17.0	17.3	
NW	1.0	8.4	3.8	1.3	.2		14.6	15.1	14.5	11.1	18.5	15.4	
VAR	.0	.0	.0	.0	.0		.0	.0	.0	.0	.0	.0	
CALM	.7						.7	.0	3.1	.0	.0	.0	
TOT OBS	33	128	94	39	5	299		16.6	64	88	69	78	
TOT PCT	11.0	42.8	31.4	13.0	1.7		100.0		100.0	100.0	100.0	100.0	

AUGUST

PERIOD: (PRIMARY) 1890-1969  
(OVER-ALL) 1860-1969AREA 0010 TASMANIA EAST  
42.65 148.7E

TABLE 4

PERCENTAGE FREQUENCY OF WIND SPEED BY HOUR (GMT)

HOUR	CALM	1-3	4-10	WIND SPEED (KNOTS)			48+	MEAN	PCT FREQ	T.O. OBS
				11-21	22-33	34-47				
00003	3.1	4.7	18.8	43.8	17.2	9.4	3.1	18.2	100.0	64
06009	.0	1.1	34.1	44.3	17.0	3.4	.0	15.3	100.0	88
12015	.0	1.4	24.6	47.8	20.3	5.8	.0	16.8	100.0	69
18021	.0	1.3	29.5	41.0	24.4	3.8	.0	16.5	100.0	78
TOT	2	6	82	132	59	16	2	16.6		299
PCT	.7	2.0	27.4	44.1	19.7	5.4	.7	100.0		

TABLE 5

PCT FREQ OF TOTAL CLOUD AMOUNT (EIGHTHS)  
BY WIND DIRECTION

WIND DIR	0-2	3-4	5-7	8 & OBSCD	TOTAL OBS	MEAN CLOUD COVER
N	1.8	2.2	6.3	6.3	5.9	
NE	.0	.0	1.8	2.2	7.1	
E	1.8	.0	.0	1.8	5.0	
SE	.4	.4	3.6	2.2	6.2	
S	1.3	1.3	8.9	6.3	6.1	
SW	1.8	5.4	8.9	2.7	5.0	
W	3.1	8.0	.0	1.3	3.3	
NW	5.8	4.0	6.3	4.0	4.3	
VAR	.0	.0	.0	.0	.0	
CALM	.0	.0	.0	.0	.0	
TOT OBS	9	12	20	18	56	5.1
TOT PCT	16.1	21.4	35.7	26.8	100.0	

TABLE 6

PERCENTAGE FREQUENCY OF CEILING HEIGHTS (FT, NH >4/8)  
AND OCCURRENCE OF NH <5/8 BY WIND DIRECTION

	000	150	300	600	1000	2000	3500	5000	6500	8000+	NH <5/8	TOTAL
	149	299	599	999	1999	3499	4999	6499	7999		ANY HGT	OBS
N	.0	.0	.0	4.5	1.8	3.1	.0	.0	.0	.0	7.1	
NE	.0	.0	.0	.4	1.8	1.8	.0	.0	.0	.0	.0	
E	.0	.0	.0	.0	1.8	.0	.0	.0	.0	.0	1.8	
SE	.0	.0	.0	1.8	.0	2.2	.0	.0	.0	.0	2.7	
S	.0	.0	.0	3.1	6.3	3.1	.9	.0	.0	.0	4.5	
SW	.0	.0	.0	.9	6.3	1.8	.9	.0	.0	.0	8.9	
W	.0	.0	.0	1.3	.0	.0	.0	.0	.0	.0	11.2	
NW	.0	.0	.0	4.0	3.6	.4	.0	.0	.0	.0	12.1	
VAR	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
CALM	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
TOT OBS	9	12	20	18	56	5.1						
TOT PCT	16.1	21.4	35.7	26.8	100.0							

TABLE 7

CUMULATIVE PCT FREQ OF SIMULTANEOUS OCCURRENCE  
OF CEILING HEIGHT (NH >4/8) AND VSBY (NM)

CEILING (FEET)	VSBY (NM)							
	>10	>5	>2	>1	>1/2	>1/4	>50YD	>0
>6500	.0	.0	.0	.0	.0	.0	.0	.0
>5000	.0	.0	.0	.0	.0	.0	.0	.0
>3500	1.8	1.8	1.8	1.8	1.8	1.8	1.8	1.8
>2000	12.5	14.3	14.3	14.3	14.3	14.3	14.3	14.3
>1000	32.1	35.7	35.7	35.7	35.7	35.7	35.7	35.7
>600	42.9	50.0	51.8	51.8	51.8	51.8	51.8	51.8
>300	42.9	50.0	51.8	51.8	51.8	51.8	51.8	51.8
>150	42.9	50.0	51.8	51.8	51.8	51.8	51.8	51.8
>0	42.9	50.0	51.8	51.8	51.8	51.8	51.8	51.8
TOTAL	24	28	29	29	29	29	29	29

TOTAL NUMBER OF OBS: 56

PCT FREQ NH &lt;5/8: 48.2

TABLE 7A

PERCENTAGE FREQ OF LOW CLOUDS (EIGHTHS)

0	1	2	3	4	5	6	7	8	OBSCD	TOTAL OBS
4.9	8.2	11.5	14.8	6.6	8.2	9.8	13.1	23.0	.0	61

AUGUST

PERIOD: (PRIMARY) 1890-1969  
(OVER-ALL) 1860-1969AREA 0010 TASMANIA EAST  
42.65 148.7E

TABLE 8

PERCENT FREQ OF WIND DIRECTION VS OCCURRENCE OR NON-OCCURRENCE OF  
PRECIPITATION WITH VARYING VALUES OF VISIBILITY

VSBY (NM)		N	NE	E	SE	S	SW	W	NW	VAR	CALM	PCT	TOTAL OBS
<1/2	PCP	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
	NO PCP	.2	.5	.0	.0	.0	.0	.0	.0	.0	.0	.7	
	TOT %	.2	.5	.0	.0	.0	.0	.0	.0	.0	.0	.7	
1/2<1	PCP	.0	.0	.0	.7	.7	.0	.0	.0	.0	.0	1.5	
	NO PCP	.0	.0	.0	1.1	.0	.0	.4	.0	.0	.0	1.5	
	TOT %	.0	.0	.0	1.8	.7	.0	.4	.0	.0	.0	2.9	
1<2	PCP	.0	.0	.0	.0	.0	.0	.0	.4	.0	.0	.4	
	NO PCP	.4	.0	.0	.0	.0	.0	.0	.0	.0	.0	.4	
	TOT %	.4	.0	.0	.0	.0	.0	.0	.4	.0	.0	.7	
2<5	PCP	.0	.0	.0	.0	.7	.0	.0	.0	.0	.0	.7	
	NO PCP	.0	.0	.0	.0	.4	.5	1.0	.4	.0	.0	2.2	
	TOT %	.0	.0	.0	.0	.4	1.2	1.0	.4	.0	.0	2.9	
5<10	PCP	1.8	.4	1.1	.9	2.4	2.4	3.8	1.1	.0	.0	13.9	
	NO PCP	7.3	2.6	1.8	5.9	4.3	9.6	6.8	6.4	.0	.0	44.7	
	TOT %	9.2	2.9	2.9	6.8	6.7	12.0	10.6	7.5	.0	.0	58.6	
10+	PCP	.0	.0	.0	.0	.0	1.1	.4	.4	.0	.0	1.8	
	NO PCP	3.8	1.6	.9	2.1	4.9	8.5	5.2	5.2	.0	.0	32.2	
	TOT %	3.8	1.6	.9	2.1	4.9	9.6	5.6	5.6	.0	.0	34.1	
TOT OBS													273
TOT PCT													100.0

TABLE 9

PERCENT FREQ OF WIND DIRECTION VS WIND SPEED  
WITH VARYING VALUES OF VISIBILITY

VSBY (NM)	SPD KTS	N	NE	E	SE	S	SW	W	NW	VAR	CALM	PCT	TOTAL OBS
<1/2	0-3	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
	4-10	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
	11-21	.2	.5	.0	.0	.0	.0	.0	.0	.0	.0	.7	
	22+	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
	TOT %	.2	.5	.0	.0	.0	.0	.0	.0	.0	.0	.7	
1/2<1	0-3	.0	.0	.0	.4	.0	.0	.0	.0	.0	.0	.4	
	4-10	.0	.0	.0	.0	.0	.0	.4	.0	.0	.0	.4	
	11-21	.0	.0	.0	.4	.0	.0	.0	.0	.0	.0	.4	
	22+	.0	.0	.0	1.1	.7	.0	.0	.0	.0	.0	1.8	
	TOT %	.0	.0	.0	1.8	.7	.0	.4	.0	.0	.0	2.9	
1<2	0-3	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
	4-10	.0	.0	.0	.0	.0	.0	.0	.4	.0	.0	.4	
	11-21	.4	.0	.0	.0	.0	.0	.0	.0	.0	.0	.4	
	22+	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
	TOT %	.4	.0	.0	.0	.0	.0	.0	.4	.0	.0	.7	
2<5	0-3	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
	4-10	.0	.0	.0	.0	.0	.4	.5	.2	.0	.0	1.1	
	11-21	.0	.0	.0	.0	.4	.4	.2	.2	.0	.0	1.1	
	22+	.0	.0	.0	.0	.0	.5	.3	.0	.0	.0	.7	
	TOT %	.0	.0	.0	.0	.4	1.2	1.0	.4	.0	.0	2.9	
5<10	0-3	.0	.4	.4	.0	.0	.0	.0	.4	.0	.0	1.1	
	4-10	2.0	.9	.7	1.5	.5	2.4	3.3	2.9	.0	.0	14.3	
	11-21	5.1	1.5	.4	3.5	3.9	6.1	4.4	3.3	.0	.0	28.2	
	22+	2.0	.2	1.5	1.8	2.2	3.5	2.9	.9	.0	.0	15.0	
	TOT %	9.2	2.9	2.9	6.8	6.7	12.0	10.6	7.5	.0	.0	58.6	
10+	0-3	.0	.0	.0	.0	.0	.4	.0	.0	.0	.0	.4	
	4-10	2.5	.7	.0	1.8	2.3	2.3	1.3	2.7	.0	.0	13.6	
	11-21	1.3	.8	.9	.3	1.6	3.7	2.6	2.5	.0	.0	13.6	
	22+	.0	.0	.0	.0	1.1	3.3	1.7	.5	.0	.0	6.6	
	TOT %	3.8	1.6	.9	2.1	4.9	9.6	5.6	5.6	.0	.0	34.1	
TOT OBS													273
TOT PCT													100.0



## AUGUST

PERIOD: (PRIMARY) 1890-1969  
(OVER-ALL) 1860-1969

AREA 0010 TASHANIA EAST  
42.05 148.7E

TABLE 10

PERCENT FREQUENCY OF CEILING HEIGHTS (FEET, NH >4/8) AND  
OCCURRENCE OF NH <5/8 BY HOUR

HOURL (GMT)	000 149	150 299	300 599	600 999	1000 1999	2000 3499	3500 4999	5000 6499	6500 7999	8000+	TOTAL	NH <5/8 ANY HGT	TOTAL OBS
00003	.0	.0	.0	11.1	22.2	33.3	.0	.0	.0	.0	66.7	33.3	9
06009	.0	.0	.0	15.4	23.1	15.4	.0	.0	.0	.0	53.8	46.2	13
12015	.0	.0	.0	19.0	19.0	4.8	4.8	.0	.0	.0	47.6	52.4	21
18021	.0	.0	.0	14.3	21.4	7.1	.0	.0	.0	.0	42.9	57.1	14
TOT	0	0	0	9	12	7	1	0	0	0	29	28	57
PCT	.0	.0	.0	15.8	21.1	12.3	1.8	.0	.0	.0	50.9	49.1	100.0

TABLE 11

PERCENT FREQUENCY VSBY (NM) BY HOUR

HOURL (GMT)	<1/2	1/2<1	1<2	2<5	5<10	10+	TOTAL OBS
00003	.0	2.3	2.3	.0	65.1	30.2	43
06009	.0	4.5	.0	4.5	66.3	24.7	89
12015	.0	.0	1.5	4.5	47.8	46.3	67
18021	2.6	3.9	.0	1.3	55.8	36.4	77
TOT	2	8	2	8	162	94	276
PCT	.7	2.9	.7	2.9	58.7	34.1	100.0

TABLE 12

CUMULATIVE PCT FREQ OF RANGES OF VSBY (NM) AND/OR  
CEILING HGT (FEET, NH >4/8), BY HOUR

HOURL (GMT)	<150 <50YD	<600 <1	<1000 <5	1000+ AND 5+	NH <5/8 AND 5+	TOTAL OBS
00003	.0	.0	11.1	55.6	33.3	9
06009	.0	.0	15.4	38.5	46.2	13
12015	.0	.0	20.0	30.0	50.0	20
18021	.0	.0	14.3	28.6	57.1	14
TOT	0	0	9	20	27	56
PCT	.0	.0	16.1	35.7	48.2	100.0

TABLE 13

PERCENT FREQUENCY OF RELATIVE HUMIDITY BY TEMP

TEMP F	0-29	30-39	40-49	50-59	60-69	70-79	80-89	90-100	TOTAL OBS	PCT FREQ
55/59	.0	.0	.0	.0	4.3	10.0	10.0	2.9	19	27.1
50/54	.0	.0	.0	.0	5.7	12.9	21.4	5.7	32	45.7
45/49	.0	.0	1.4	.0	1.4	8.6	7.1	2.9	15	21.4
40/44	.0	.0	.0	.0	1.4	2.9	1.4	.0	4	5.7
TOTAL	0	0	1	0	9	24	28	8	70	100.0
PCT	.0	.0	1.4	.0	12.9	34.3	40.0	11.4		

TABLE 14

PERCENT FREQUENCY OF WIND DIRECTION BY TEMP

	N	NE	E	SE	S	SW	W	NW	VAR	CALM
55/59	7.1	3.2	1.4	2.9	1.1	1.8	1.1	8.6	.0	.0
50/54	9.0	1.4	1.4	2.5	4.3	7.9	9.3	9.3	.0	.0
45/49	.0	.0	.0	.0	7.9	8.6	2.1	2.9	.0	.0
40/44	.0	.0	.0	.0	.0	4.3	.7	.7	.0	.0
TOTAL	16.8	4.6	2.9	5.4	13.2	22.5	13.2	21.4	.0	.0

TABLE 15

MEANS, EXTREMES AND PERCENTILES OF TEMP (DEG F) BY HOUR

HOURL (GMT)	MAX	99%	95%	50%	5%	1%	MIN	MEAN	TOTAL OBS
00003	58	57	55	51	46	44	44	51.0	63
06009	59	58	57	51	45	43	43	51.0	90
12015	57	56	55	51	45	41	41	50.7	68
18021	57	56	55	49	43	42	42	49.2	79
TOT	59	58	55	51	44	43	41	50.5	300

TABLE 16

PERCENT FREQUENCY OF RELATIVE HUMIDITY BY HOUR

HOURL (GMT)	0-29	30-39	40-49	50-59	60-69	70-79	80-89	90-100	MEAN	TOTAL OBS
00003	.0	.0	20.0	30.0	30.0	20.0	81	10		
06009	.0	6.3	12.5	31.3	31.3	18.8	78	16		
12015	.0	.0	9.1	31.8	50.0	9.1	81	22		
18021	.0	.0	13.6	40.9	40.9	4.5	79	22		
TOT	0	1	9	24	28	8	80	70		

AUGUST

PERIOD: (PRIMARY) 1890-1969  
(OVER-ALL) 1860-1969

TABLE 17

AREA 0010 TASMANIA EAST  
42.65 148.7EPCT FREQ OF AIR TEMPERATURE (DEG F) AND THE OCCURRENCE OF FOG (WITHOUT PRECIPITATION)  
VS AIR-SEA TEMPERATURE DIFFERENCE (DEG F)

AIR-SEA TMP DIF	41 44	45 48	49 52	53 56	57 60	TOT	N FOG	W FOG
7/8	.0	.0	.0	.4	.4	2	.0	.8
6	.0	.0	.0	.0	.4	1	.4	.0
5	.0	.0	.0	.8	.4	3	.0	1.2
4	.0	.0	.0	.4	.0	1	.0	.4
3	.0	.0	.0	1.2	.0	3	.0	1.2
2	.0	.0	1.6	1.6	.8	10	.0	4.1
1	.0	.0	2.9	5.3	.0	20	.0	8.2
0	.0	1.2	3.7	6.6	.8	30	.4	11.9
-1	.0	.0	11.5	4.5	.4	40	1.6	14.8
-2	.0	2.5	11.5	2.9	.0	41	.4	16.5
-3	.0	1.2	7.4	1.2	.0	24	.0	9.9
-4	.0	3.7	4.1	.4	.0	20	.0	8.2
-5	.0	4.9	3.3	.8	.0	22	.0	9.1
-6	.4	2.9	.4	.4	.0	10	.0	4.1
-7/-8	3.3	1.6	.4	.0	.0	13	.0	5.3
-9/-10	.4	.0	.0	.0	.0	.0	.0	.4
-11/-13	.0	.4	.4	.0	.0	.0	.0	.8
TOTAL	10		115		8	243	7	236
PCT	4.1	18.5	47.3	26.7	3.3	100.0	2.9	97.1

PERIOD: (OVER-ALL) 1963-1969

TABLE 18

PCT FREQ OF WIND SPEED (KTS) AND DIRECTION VERSUS SEA HEIGHTS (FT)

HGT	1-3	4-10	11-21	22-33	34-47	48+	PCT	1-3	4-10	11-21	22-33	34-47	48+	PCT
<1	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
1-2	.0	5.4	3.4	.0	.0	.0	8.8	.0	2.0	2.5	.0	.0	.0	4.4
3-4	.0	2.9	3.4	.0	.0	.0	6.4	.0	.0	.0	.0	.0	.0	.0
5-6	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
7	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
8-9	.0	2.0	.0	.0	.0	.0	2.0	.0	.0	2.0	.0	.0	.0	2.0
10-11	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
12	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
13-16	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
17-19	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
20-22	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
23-25	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
26-32	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
33-40	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
41-48	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
49-60	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
61-70	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
71-86	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
87+	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
TOT PCT	.0	10.3	6.9	.0	.0	.0	17.2	.0	2.0	4.4	.0	.0	.0	6.4

HGT	1-3	4-10	11-21	22-33	34-47	48+	PCT	1-3	4-10	11-21	22-33	34-47	48+	PCT
<1	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
1-2	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
3-4	.0	.0	3.9	.0	.0	.0	3.9	.0	4.9	.5	.0	.0	.0	5.4
5-6	.0	.0	.0	.0	.0	.0	.0	.0	.0	2.0	.0	.0	.0	2.0
7	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
8-9	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
10-11	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
12	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
13-16	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
17-19	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
20-22	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
23-25	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
26-32	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
33-40	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
41-48	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
49-60	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
61-70	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
71-86	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
87+	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
TOT PCT	.0	.0	3.9	.0	.0	.0	3.9	.0	4.9	.5	2.0	.0	.0	7.4

PERIOD: (OVER-ALL) 1963-1969

AUGUST

AREA 0010 TASMANIA EAST  
42.65 148.7E

TABLE 18 (CONT)

PCT FREQ OF WIND SPEED (KTS) AND DIRECTION VERSUS SEA HEIGHTS (FT)

HGT	1-3	4-10	11-21	22-33	34-47	48+	PCT	1-3	4-10	11-21	22-33	34-47	48+	PCT
<1	.0	.0	.0	.0	.0	.0	.0	2.0	.0	.0	.0	.0	.0	2.0
1-2	.0	3.4	.0	.0	.0	.0	3.4	.0	.5	.0	.0	.0	.0	.5
3-4	.0	2.9	4.9	.0	.0	.0	7.8	.0	.0	.5	.0	.0	.0	.5
5-6	.0	.0	2.0	2.0	.0	.0	3.9	.0	.0	3.9	2.0	.0	.0	5.9
7	.0	.0	.0	.0	.0	.0	.0	.0	.0	2.0	.0	.0	.0	3.9
8-9	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	2.0
10-11	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
12	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.5	.0	.0	.5
13-16	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
17-19	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
20-22	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
23-25	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
26-32	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	2.0	.0	2.0
33-40	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
41-48	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
49-60	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
61-70	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
71-86	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
87+	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
TOT PCT	.0	6.4	6.9	2.0	.0	.0	15.2	2.0	.5	8.3	4.4	2.0	.0	17.2

HGT	1-3	4-10	11-21	22-33	34-47	48+	PCT	1-3	4-10	11-21	22-33	34-47	48+	PCT	TOTAL PCT
<1	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
1-2	.0	2.0	2.0	.0	.0	.0	3.9	2.0	2.5	.0	.0	.0	.0	4.4	.0
3-4	.0	.0	.0	.0	.0	.0	.0	.0	2.5	4.4	.0	.0	.0	7.4	.0
5-6	.0	.0	2.9	2.0	.0	.0	4.9	.0	.0	2.9	.0	.0	.0	2.9	.0
7	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
8-9	.0	.0	.0	1.5	.0	.0	1.5	.0	.0	.0	.5	.0	.0	.5	.0
10-11	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	2.0	.0	.0	2.0	.0
12	.0	.0	.0	1.5	.0	.0	1.5	.0	.0	.0	.0	.0	.0	.0	.0
13-16	.0	.0	.0	.0	2.0	.0	2.0	.0	.0	.0	.0	.0	.0	.0	.0
17-19	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	2.0	.0	2.0	.0
20-22	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
23-25	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
26-32	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
33-40	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
41-48	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
49-60	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
61-70	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
71-86	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
87+	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
TOT PCT	.0	2.0	4.9	4.9	2.0	.0	13.7	2.0	5.4	7.4	2.5	2.0	.0	19.1	100.0

WIND SPEED (KTS) VS SEA HEIGHT (FT)

HGT	0-3	4-10	11-21	22-33	34-47	48+	PCT	TOT OBS
<1	2.0	.0	.0	.0	.0	.0	2.0	.0
1-2	2.0	15.7	7.8	.0	.0	.0	25.5	.0
3-4	.0	13.7	17.6	.0	.0	.0	31.4	.0
5-6	.0	.0	11.8	7.8	.0	.0	19.6	.0
7	.0	.0	2.0	2.0	.0	.0	3.9	.0
8-9	.0	2.0	3.9	2.0	.0	.0	7.8	.0
10-11	.0	.0	.0	2.0	.0	.0	2.0	.0
12	.0	.0	.0	2.0	.0	.0	2.0	.0
13-16	.0	.0	.0	.0	2.0	.0	2.0	.0
17-19	.0	.0	.0	.0	2.0	.0	2.0	.0
20-22	.0	.0	.0	.0	.0	.0	.0	.0
23-25	.0	.0	.0	.0	.0	.0	.0	.0
26-32	.0	.0	.0	.0	2.0	.0	2.0	.0
33-40	.0	.0	.0	.0	.0	.0	.0	.0
41-48	.0	.0	.0	.0	.0	.0	.0	.0
49-60	.0	.0	.0	.0	.0	.0	.0	.0
61-70	.0	.0	.0	.0	.0	.0	.0	.0
71-86	.0	.0	.0	.0	.0	.0	.0	.0
87+	.0	.0	.0	.0	.0	.0	.0	.0
TOT PCT	3.9	31.4	43.1	15.7	5.9	.0	100.0	51

PERIOD: (OVER-ALL) 1952-1969

TABLE 19

PERCENT FREQUENCY OF WAVE HEIGHT (FT) VS WAVE PERIOD (SECONDS)

PERIOD [SEC]	<1	1-2	3-4	5-6	7	8-9	10-11	12	13-16	17-19	20-22	23-25	26-32	33-40	41-48	49-60	61-70	71-86	87+	TOTAL	MEAN HGT	
<6	.0	.0	10.3	3.4	1.7	.0	1.7	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	13	5
6-7	.0	.0	5.9	5.2	1.7	3.4	3.4	3.4	1.7	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	15	7
8-9	.0	.0	3.4	3.4	6.9	8.6	1.7	.0	1.7	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	15	7
10-11	.0	.0	3.4	.0	.0	3.4	1.7	1.7	.0	.0	.0	.0	1.7	.0	.0	.0	.0	.0	.0	.0	7	11
12-13	.0	.0	.0	1.7	3.4	.0	.0	.0	3.4	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	5	9
>13	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	1.7	.0	.0	.0	.0	.0	.0	.0	.0	1	26
INDET	.0	1.7	.0	.0	.0	.0	.0	.0	.0	5.2	.0	1.7	.0	.0	.0	.0	.0	.0	.0	.0	5	16
TOTAL	.0	1	14	8	8	9	5	3	4	3	.0	1	2	.0	.0	.0	.0	.0	.0	.0	58	8
PCT	.0	1.7	24.1	13.8	13.8	15.5	8.6	5.2	6.9	5.2	.0	1.7	3.4	.0	.0	.0	.0	.0	.0	.0	100.0	

## SEPTEMBER

PERIOD: (PRIMARY) 1888-1969  
(OVER-ALL) 1888-1969AREA 0010 TASMANIA EAST  
42.55 148.5E

TABLE 1

## PERCENT FREQUENCY OF WEATHER OCCURRENCE BY WIND DIRECTION

WIND DIR	PRECIPITATION TYPE							OTHER WEATHER PHENOMENA							NO SIG WEA
	RAIN	RAIN SHWR	DRZL	FRZG PCPN	SNOW	OTHER FRZN PCPN	HAIL	PCPN AT OB TIME	PCPN PAST HOUR	THOR LTNG	FOG PCPN	FOG WD PCPN	SMOKE HAZE	SPRAY BLWG DUST	
N	4.5	3.3	1.2	.0	.0	.0	.0	9.1	1.2	5.8	5.0	.0	2.5	.0	78.1
NE	6.0	3.0	.0	.0	.0	.0	.0	9.0	3.0	.0	.0	.0	.0	.0	88.1
E	17.5	.0	.0	.0	.0	.0	.0	10.5	7.9	.0	.0	.0	.0	.0	81.6
SE	17.0	7.5	.0	.0	.0	.0	.0	24.5	7.5	.0	.0	.0	.0	.0	67.9
S	8.6	10.6	2.0	.0	.0	.0	4.6	23.8	2.0	2.6	.0	.0	.0	.0	74.2
SW	4.4	7.4	.7	.0	.0	.0	12.3	24.3	.7	.0	.0	.0	.0	.0	75.0
W	2.0	12.2	2.0	.0	.0	.0	.0	16.2	1.5	.0	.0	.0	2.0	.0	80.2
NW	.5	8.0	2.5	.0	.0	.0	.0	11.0	.5	1.0	8.0	.0	1.0	.0	78.5
VAR	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
CALM	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
TOT PCT	4.8	7.4	1.5	.0	.0	.0	2.2	15.5	1.8	1.8	2.6	.0	1.1	.0	77.9
TOT OBS:	271														

TABLE 2

## PERCENT FREQUENCY OF WEATHER OCCURRENCE BY HOUR

HOUR (GMT)	PRECIPITATION TYPE							OTHER WEATHER PHENOMENA							NO SIG WEA
	RAIN	RAIN SHWR	DRZL	FRZG PCPN	SNOW	OTHER FRZN PCPN	HAIL	PCPN AT OB TIME	PCPN PAST HOUR	THOR LTNG	FOG PCPN	FOG WD PCPN	SMOKE HAZE	SPRAY BLWG DUST	
0000	4.3	6.4	.0	.0	.0	.0	2.1	12.8	2.1	.0	4.3	.0	.0	.0	80.9
0600	7.1	7.1	2.4	.0	.0	.0	2.4	18.8	2.4	1.2	.0	.0	.0	.0	77.6
1200	3.1	4.6	1.5	.0	.0	.0	.0	9.2	.0	1.5	4.6	.0	1.5	.0	83.1
1800	3.5	10.5	1.2	.0	.0	.0	3.5	17.4	2.3	2.3	2.3	.0	3.5	.0	72.1
TOT PCT	4.6	7.4	1.4	.0	.0	.0	2.1	15.2	1.8	1.8	2.6	.0	1.4	.0	77.7
TOT OBS:	283														

TABLE 3

## PERCENTAGE FREQUENCY OF WIND DIRECTION BY SPEED AND BY HOUR

WIND DIR	WIND SPEED (KNOTS)							48+	TOTAL OBS	PCT FREQ	MEAN SPD	HOUR (GMT)						
	0-3	4-10	11-21	22-33	34-47	00	03					06	09	12	15	18	21	
N	1.5	5.3	10.4	4.1	.2	.0		21.5	15.2		17.1	24.2	15.5	14.9	27.6	30.6	22.6	19.4
NE	.6	1.6	2.1	.8	.0	.0		5.1	13.4		1.3	3.2	14.5	10.7	.0	2.8	.5	4.2
E	.3	1.8	1.5	.4	.0	.0		4.0	12.2		9.2	4.8	2.5	8.3	6.9	2.8	1.0	.0
SE	.0	2.7	1.5	.5	.1	.0		4.8	12.6		2.6	4.0	7.0	6.0	3.4	2.8	6.7	2.8
S	.3	4.7	3.5	3.0	1.4	.2		13.0	16.7		23.7	7.3	18.0	14.9	18.1	12.5	13.5	4.2
SW	.3	2.5	3.9	5.1	1.2	.1		13.2	19.7		1.3	14.5	14.0	16.1	6.9	16.7	12.5	15.3
W	.3	6.6	7.6	3.1	.8	.0		18.5	15.0		18.4	17.7	15.5	17.9	25.9	15.3	12.5	30.5
NW	1.0	4.6	8.7	4.1	.3	.0		18.7	15.1		26.3	17.7	13.0	11.3	11.2	16.7	30.8	23.5
VAR	.0	.0	.0	.0	.0	.0		.0	.0		.0	.0	.0	.0	.0	.0	.0	.0
CALM	1.2							1.2	.0		.0	6.5	.0	.0	.0	.0	.0	.0
TOT OBS	18	97	128	69	13	1	376		15.4		19	62	50	42	29	36	52	35
TOT PCT	5.5	29.8	39.3	21.2	4.0	.3		100.0			100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0

TABLE 3A

WIND DIR	WIND SPEED (KNOTS)							TOTAL OBS	PCT FREQ	MEAN SPD	HOUR (GMT)				
	0-6	7-16	17-27	28-40	41+						00	03	06	12	18
N	3.0	8.5	7.9	2.1	.0			21.5	15.2		22.5	15.2	29.2	21.3	
NE	1.2	2.0	1.3	.0	.0			5.1	13.4		2.8	12.8	1.5	2.0	
E	.7	2.3	.8	.2	.0			4.0	12.2		5.9	5.2	4.6	.0	
SE	1.0	2.3	1.2	.2	.0			4.8	12.6		3.7	6.5	3.1	5.1	
S	3.5	4.2	2.7	2.5	.2			13.0	16.7		11.1	16.6	15.0	9.7	
SW	1.3	3.8	5.9	1.5	.7			13.2	19.7		11.4	14.9	12.3	13.6	
W	2.8	8.9	4.6	2.2	.0			18.5	15.0		17.9	16.6	20.0	19.9	
NW	2.5	8.8	6.2	1.2	.0			18.7	15.1		19.8	12.2	14.2	27.8	
VAR	.0	.0	.0	.0	.0			.0	.0		.0	.0	.0	.0	
CALM	1.2							1.2	.0		.0	.0	.0	.0	
TOT OBS	56	133	100	34	3	326			15.4		81	92	65	88	
TOT PCT	17.2	40.8	30.7	10.4	.9			100.0			100.0	100.0	100.0	100.0	

SEPTEMBER

PERIOD: (PRIMARY) 1888-1969  
(OVER-ALL) 1868-1969

AREA 0010 TASMANIA EAST  
42.55 148.5E

TABLE 4

PERCENTAGE FREQUENCY OF WIND SPEED BY HOUR (GMT)

HOUR	CALM	1-3	4-10	WIND SPEED (KNOTS)			48+	MEAN	PCT FREQ	TOTAL OBS
				11-21	22-33	34-47				
0000	4.9	4.9	21.0	40.7	22.2	6.2	.0	16.1	100.0	81
0600	.0	5.4	30.4	35.9	25.0	3.3	.0	15.1	100.0	92
1200	.0	1.5	36.9	36.9	18.5	6.2	.0	15.4	100.0	65
1800	.0	4.5	31.8	43.2	18.2	1.1	1.1	15.2	100.0	88
TOT	4	14	97	128	69	13	1	15.4		326
PCT	1.2	4.3	29.8	39.3	21.2	4.0	.3	100.0		

TABLE 5

PCT FREQ OF TOTAL CLOUD AMOUNT (EIGHTHS)  
BY WIND DIRECTION

WIND DIR	0-2	3-4	5-7	8 & OBS	TOTAL OBS	MEAN CLOUD COVER
N	6.4	3.9	2.5	7.5		4.8
NE	.4	.0	2.9	.7		5.9
E	1.4	1.1	1.4	1.1		4.8
SE	.0	1.8	1.8	2.1		6.4
S	3.6	2.5	8.6	7.5		5.7
SW	2.9	.7	3.9	1.8		4.8
W	12.5	2.5	.0	1.4		2.0
NW	2.9	1.8	4.6	7.9		6.1
VAR	.0	.0	.0	.0		.0
CALM	.0	.0	.0	.0		.0
TOT OBS	21	10	18	21	70	4.9
TOT PCT	30.0	14.3	25.7	30.0	100.0	

TABLE 6

PERCENTAGE FREQUENCY OF CEILING HEIGHTS (FT, NH >4/8)  
AND OCCURRENCE OF NH <5/8 BY WIND DIRECTION

000	150	300	600	1000	2000	3500	5000	6500	8000+	NH <5/8	TOTAL
149	299	599	999	1999	3499	4999	6499	7999		ANY HGT	OBS
.0	.0	1.1	.0	3.9	.0	2.5	.0	.0	.0	12.9	
.0	.0	.0	.4	1.4	.0	.4	.0	.0	.0	1.8	
.0	.0	.0	1.1	.0	1.4	.0	.0	.0	.0	2.5	
.0	.0	.0	3.6	.4	.0	.0	.0	.0	.0	1.8	
.0	.0	.0	3.6	7.5	1.4	.0	.0	.0	.0	9.6	
.0	.0	.0	.0	3.6	.0	.0	.0	.0	.0	5.7	
.0	.0	.0	.0	1.4	.0	.0	.0	.0	.0	15.0	
.0	.0	.4	.0	3.2	2.9	1.4	.0	.0	.0	9.3	
.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
.0	.0	1	6	15	4	3	.0	.0	.0	41	70
.0	.0	1.4	8.6	21.4	5.7	4.3	.0	.0	.0	58.6	100.0

TABLE 7

CUMULATIVE PCT FREQ OF SIMULTANEOUS OCCURRENCE  
OF CEILING HEIGHT (NH >4/8) AND VSBY (NM)

CEILING (FEET)	VSBY (NM)							
	>10	>5	>2	>1	>1/2	>1/4	>50YD	>0
>6500	.0	.0	.0	.0	.0	.0	.0	.0
>5000	.0	.0	.0	.0	.0	.0	.0	.0
>3500	2.9	4.3	4.3	4.3	4.3	4.3	4.3	4.3
>2000	8.7	10.1	10.1	10.1	10.1	10.1	10.1	10.1
>1000	21.7	30.4	30.4	30.4	30.4	30.4	30.4	30.4
>600	26.1	36.2	37.7	37.7	39.1	39.1	39.1	39.1
>300	26.1	37.7	39.1	39.1	40.6	40.6	40.6	40.6
>150	26.1	37.7	39.1	39.1	40.6	40.6	40.6	40.6
>0	26.1	37.7	39.1	39.1	40.6	40.6	40.6	40.6
TOTAL	18	26	27	27	28	28	28	28

TOTAL NUMBER OF OBS: 69

PCT FREQ NH <5/8: 59.4

TABLE 7A

PERCENTAGE FREQ OF LOW CLOUDS (EIGHTHS)

0	1	2	3	4	5	6	7	8	OBS	TOTAL OBS
7.2	19.3	13.3	8.4	4.8	2.4	7.2	12.0	25.3	.0	83



SEPTEMBER

PERIOD: (PRIMARY) 1888-1969  
(OVER-ALL) 1859-1969

AREA 0010 TASMANIA EAST  
42.5S 148.5E

TABLE 8

PERCENT FREQ OF WIND DIRECTION VS OCCURRENCE OR NON-OCCURRENCE OF  
PRECIPITATION WITH VARYING VALUES OF VISIBILITY

VSBY (NM)		N	NE	E	SE	S	SW	W	NW	VAR	CALM	PCT	TOTAL OBS
<1/2	PCP	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
	NO PCP	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
	TOT %	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
1/2<1	PCP	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
	NO PCP	1.1	.1	.3	.0	.0	.0	.0	1.1	.0	.0	.0	2.6
	TOT %	1.1	.1	.3	.0	.0	.0	.0	1.1	.0	.0	.0	2.6
1<2	PCP	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
	NO PCP	.6	.0	.0	.0	.0	.0	.4	.2	.0	.0	.0	1.1
	TOT %	.6	.0	.0	.0	.0	.0	.4	.2	.0	.0	.0	1.1
2<5	PCP	.3	.4	.4	.5	.6	.1	.0	.1	.0	.0	.0	2.2
	NO PCP	.0	.0	.7	.6	.2	.0	.0	.0	.0	.0	.0	1.5
	TOT %	.3	.4	1.1	1.0	.7	.1	.0	.1	.0	.0	.0	3.7
5<10	PCP	1.8	.2	.0	.4	2.5	2.9	3.0	1.9	.0	.0	.0	12.5
	NO PCP	12.6	3.4	1.1	1.9	3.2	5.2	7.3	9.1	.0	.0	.0	43.9
	TOT %	14.4	3.6	1.1	2.3	5.7	8.0	10.2	11.1	.0	.0	.0	56.5
10+	PCP	.0	.0	.0	.4	.3	.1	.0	.0	.0	.0	.0	.7
	NO PCP	6.0	2.1	1.0	1.2	7.2	4.3	7.6	6.0	.0	.0	.0	35.4
	TOT %	6.0	2.1	1.0	1.6	7.5	4.4	7.6	6.0	.0	.0	.0	36.2
TOT OBS													
TOT PCT													
		22.3	6.2	3.5	4.9	13.9	12.5	18.2	18.5	.0	.0	100.0	271

TABLE 9

PERCENT FREQ OF WIND DIRECTION VS WIND SPEED  
WITH VARYING VALUES OF VISIBILITY

VSBY (NM)	SPD KTS	N	NE	E	SE	S	SW	W	NW	VAR	CALM	PCT	TOTAL OBS
<1/2	0-3	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
	4-10	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
	11-21	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
	22+	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
	TOT %	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
1/2<1	0-3	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
	4-10	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
	11-21	.7	.0	.0	.0	.0	.0	.0	.4	.0	.0	.0	1.1
	22+	.4	.1	.3	.0	.0	.0	.0	.7	.0	.0	.0	1.5
	TOT %	1.1	.1	.3	.0	.0	.0	.0	1.1	.0	.0	.0	2.5
1<2	0-3	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
	4-10	.5	.0	.0	.0	.0	.0	.4	.2	.0	.0	.0	1.1
	11-21	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
	22+	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
	TOT %	.5	.0	.0	.0	.0	.0	.4	.2	.0	.0	.0	1.1
2<5	0-3	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
	4-10	.0	.0	.0	.2	.2	.0	.0	.0	.0	.0	.0	.4
	11-21	.0	.4	1.1	.7	.0	.0	.2	.2	.0	.0	.0	2.5
	22+	.6	.0	.0	.1	.5	.1	.0	.1	.0	.0	.0	1.5
	TOT %	.6	.4	1.1	1.0	.7	.1	.2	.3	.0	.0	.0	4.4
5<10	0-3	1.5	.7	.4	.0	.4	.0	.4	.4	.0	.0	.0	3.6
	4-10	3.1	1.2	.4	1.6	1.5	.5	4.0	2.6	.0	.0	.0	14.9
	11-21	6.8	.7	.4	.6	1.7	2.7	3.9	5.6	.0	.0	.0	22.5
	22+	2.8	.9	.0	.0	2.0	4.7	2.2	2.3	.0	.0	.0	14.9
	TOT %	14.2	3.5	1.1	2.3	5.6	7.9	10.5	10.9	.0	.0	.0	56.0
10+	0-3	.3	.0	.0	.0	.0	.0	.0	.5	.0	.0	.0	.7
	4-10	1.9	.7	.8	1.0	3.6	1.5	2.4	1.5	.0	.0	.0	13.5
	11-21	3.0	1.4	.4	.4	1.9	1.7	3.5	2.4	.0	.0	.0	14.5
	22+	.7	.0	.0	.4	1.8	1.2	1.6	1.5	.0	.0	.0	7.3
	TOT %	5.9	2.1	1.2	1.7	7.4	4.4	7.5	5.9	.0	.0	.0	36.0
TOT OBS													
TOT PCT													
		22.4	6.1	3.6	5.0	13.7	12.4	18.5	18.4	.0	.0	100.0	275

SEPTEMBER

PERIOD: (PRIMARY) 1888-1969  
(OVER-ALL) 1868-1969

AREA 0010 TASMANIA EAST  
42.55 148.5E

TABLE 10

PERCENT FREQUENCY OF CEILING HEIGHTS (FEET, NH >4/8) AND  
OCCURRENCE OF NH <5/8 BY HOUR

HOUR (GMT)	000 149	150 299	300 599	600 999	1000 1999	2000 3499	3500 4999	5000 6499	6500 7999	8000+	TOTAL	NH <5/8 ANY HGT	TOTAL OBS
00603	.0	.0	.0	12.5	18.8	12.5	.0	.0	.0	.0	43.8	56.3	16
06609	.0	.0	4.8	14.3	33.3	.0	.0	.0	.0	.0	52.4	47.6	21
12615	.0	.0	.0	.0	16.0	4.0	4.0	.0	.0	.0	24.0	76.0	25
18621	.0	.0	.0	9.1	9.1	18.2	.0	.0	.0	.0	45.5	54.5	11
TOT	0	0	1	6	15	4	3	0	0	29	44	73	
PCT	.0	.0	1.4	8.2	20.5	5.5	4.1	.0	.0	.0	39.7	60.3	100.0

TABLE 11

PERCENT FREQUENCY VSBY (NM) BY HOUR

HOUR (GMT)	<1/2	1/2<1	1<2	2<5	5<10	10+	TOTAL OBS
00603	.0	6.3	.0	4.2	60.4	29.2	48
06609	.0	1.1	.0	3.4	58.6	36.8	87
12615	.0	3.0	1.5	4.5	45.5	45.5	66
18621	.0	2.3	3.4	4.6	63.2	26.4	87
TOT	0	8	4	12	165	99	288
PCT	.0	2.8	1.4	4.2	57.3	34.4	100.0

TABLE 12

CUMULATIVE PCT FREQ OF RANGES OF VSBY (NM) AND/OR  
CEILING HGT (FEET, NH >4/8), BY HOUR

HOUR (GMT)	<150 <50VD	<600 <1	<1000 <5	1000+ AND5+	NH <5/8 AND 5+	TOTAL OBS
00603	.0	6.7	20.0	26.7	53.3	15
06609	.0	4.8	19.0	33.3	47.6	21
12615	.0	.0	.0	25.0	75.0	24
18621	.0	.0	11.1	44.4	44.4	9
TOT	0	2	8	21	40	69
PCT	.0	2.9	11.6	30.4	58.0	100.0

TABLE 13

PERCENT FREQUENCY OF RELATIVE HUMIDITY BY TEMP

TEMP F	0-29	30-39	40-49	50-59	60-69	70-79	80-89	90-100	TOTAL OBS	PCT FREQ
65/69	.0	.0	.0	1.0	.0	1.0	.0	.0	2	2.0
60/64	.0	.0	.0	.0	1.0	1.0	.0	.0	2	2.0
55/59	.0	.0	1.0	.0	4.9	16.7	8.8	4.9	37	36.3
50/54	.0	.0	.0	1.0	9.8	19.6	12.7	5.9	50	49.0
45/49	.0	.0	.0	.0	3.9	3.9	1.0	1.0	10	9.8
40/44	.0	.0	.0	.0	.0	.0	.0	1.0	1	1.0
TOTAL	0	0	1	2	20	43	23	13	102	100.0
PCT	.0	.0	1.0	2.0	19.6	42.2	22.5	12.7		

TABLE 14

PERCENT FREQUENCY OF WIND DIRECTION BY TEMP

N	NE	E	SE	S	SW	W	NW	VAR	CALM
.0	.0	.5	1.5	.0	.0	.0	.0	.0	.0
.0	.0	.0	.0	.0	.2	1.2	.5	.0	.0
11.5	1.7	2.5	1.2	2.7	2.7	5.1	8.8	.0	.0
8.1	1.0	.0	2.5	14.0	7.6	8.6	7.4	.0	.0
.5	.0	1.0	1.2	3.7	2.9	.0	.5	.0	.0
.0	.0	.0	.0	.7	.2	.0	.0	.0	.0
20.1	2.7	3.9	6.4	21.1	13.7	15.0	17.2	.0	.0

TABLE 15

MEANS, EXTREMES AND PERCENTILES OF TEMP (DEG F) BY HOUR

HOUR (GMT)	MAX	99%	95%	50%	5%	1%	MIN	MEAN	TOTAL OBS
00603	64	63	58	53	47	43	43	52.7	78
06609	67	65	57	52	47	41	41	52.3	93
12615	60	59	57	52	47	43	43	51.9	69
18621	57	56	55	51	43	37	37	50.6	93
TOT	67	61	57	52	46	41	37	51.9	333

TABLE 16

PERCENT FREQUENCY OF RELATIVE HUMIDITY BY HOUR

HOUR (GMT)	0-29	30-39	40-49	50-59	60-69	70-79	80-89	90-100	MEAN	TOTAL OBS
00603	.0	.0	15.0	60.0	10.0	15.0	77	20		
06609	.0	6.7	26.7	43.3	13.3	10.0	74	30		
12615	.0	6.3	12.5	34.4	34.4	12.5	78	32		
18621	.0	.0	27.3	31.8	27.3	13.6	78	22		
TOT	0	4	21	43	23	13	77	104		

PERIOD: (PRIMARY) 1888-1969  
(OVER-ALL) 1888-1969

SEPTEMBER

AREA 0010 TASMANIA EAST  
42.5S 148.5E

TABLE 17

PCT FREQ OF AIR TEMPERATURE (DEG F) AND THE OCCURRENCE OF FOG (WITHOUT PRECIPITATION)  
VS AIR-SEA TEMPERATURE DIFFERENCE (DEG F)

AIR-SEA TMP DIF	41 44	45 48	49 52	53 56	57 60	61 64	TOT FOG	N FOG	W FOG
9/10	.0	.0	.0	.0	.0	.4	1	.0	.4
7/8	.0	.0	.0	.0	.4	.4	2	.0	.8
6	.0	.0	.0	.0	.4	.0	1	.0	.4
5	.0	.0	.4	.8	.0	.0	3	.0	1.2
4	.0	.0	.8	1.7	1.2	.0	9	.0	3.7
3	.0	.0	.0	1.7	1.2	.0	7	.4	2.5
2	.0	.0	1.7	5.4	2.5	.0	23	.4	9.1
1	.0	.0	3.7	11.2	.4	.0	37	1.2	14.0
0	.0	.0	5.8	6.2	.8	.0	31	.4	12.4
-1	.0	.4	9.5	6.2	.4	.0	40	.0	16.5
-2	.0	1.7	4.1	1.7	.0	.0	18	.0	7.4
-3	.4	2.1	6.6	1.2	.0	.0	25	.0	10.3
-4	.0	3.8	4.5	.0	.0	.0	19	.0	7.9
-5	.0	2.1	1.2	.4	.0	.0	9	.4	3.3
-6	.4	1.2	.0	.0	.0	.0	4	.0	1.7
-7/-8	1.7	1.7	.8	.0	.0	.0	10	.0	4.1
-9/-10	1.2	.0	.0	.0	.0	.0	3	.0	1.2
TOTAL	9		95	88	18	2	242	7	235
PCT	3.7	12.4	39.3	36.4	7.4	.8	100.0	2.9	97.1

PERIOD: (OVER-ALL) 1963-1969

TABLE 18

PCT FREQ OF WIND SPEED (KTS) AND DIRECTION VERSUS SEA HEIGHTS (FT)

HGT	N						PCT	NE						PCT
	1-3	4-10	11-21	22-33	34-47	48+		1-3	4-10	11-21	22-33	34-47	48+	
<1	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
1-2	.0	4.8	1.4	.0	.0	.0	6.2	.0	.0	.0	.0	.0	.0	.0
3-4	.0	1.0	4.1	2.4	.0	.0	7.5	.0	1.7	1.4	.3	.0	.0	3.4
5-6	1.0	.0	5.1	1.0	.0	.0	7.2	.0	.0	.3	.0	.0	.0	.3
7	.0	.0	1.0	.0	.0	.0	1.0	.0	.0	.0	.0	.0	.0	.0
8-9	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
10-11	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
12	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
13-16	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
17-19	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
20-22	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
23-25	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
26-32	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
33-40	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
41-48	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
49-60	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
61-70	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
71-86	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
87+	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
TOT PCT	1.0	5.8	11.6	3.4	.0	.0	21.9	.0	1.7	1.7	.3	.0	.0	3.8

HGT	E						PCT	SE						PCT
	1-3	4-10	11-21	22-33	34-47	48+		1-3	4-10	11-21	22-33	34-47	48+	
<1	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
1-2	.0	2.4	.0	.0	.0	.0	2.4	.0	.3	.0	.0	.0	.0	.3
3-4	.0	.0	.0	1.0	.0	.0	1.0	.0	1.4	1.7	.0	.0	.0	3.1
5-6	.0	.0	1.4	.0	.0	.0	1.4	.0	.0	1.4	.0	.3	.0	1.7
7	.0	.0	.0	.0	.0	.0	.0	.0	.0	.3	.0	.0	.0	.3
8-9	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	1.4	.0	.0	1.4
10-11	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
12	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
13-16	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
17-19	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
20-22	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
23-25	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
26-32	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
33-40	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
41-48	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
49-60	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
61-70	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
71-86	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
87+	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
TOT PCT	.0	2.4	1.4	1.0	.0	.0	4.8	.0	1.7	3.4	1.4	.3	.0	6.8

PERIOD: (OVER-ALL) 1963-1969

SEPTEMBER

AREA 0010 TASMANIA EAST  
42.55 148.5E

TABLE 18 (CONT)

PCT FREQ OF WIND SPEED (KTS) AND DIRECTION VERSUS SEA HEIGHTS (FT)

HGT	S							PCT	SW							PCT
	1-3	4-10	11-21	22-33	34-47	48+			1-3	4-10	11-21	22-33	34-47	48+		
<1	.0	1.4	.0	.0	.0	.0		1.4	.0	.0	.0	.0	.0	.0		.0
1-2	.0	2.4	2.7	.0	.0	.0		5.1	.0	1.7	.0	.0	.0	.0		1.7
3-4	.0	1.0	1.0	.0	.0	.0		2.1	.0	.3	2.1	1.4	.0	.0		3.8
5-6	.0	.0	2.7	.0	1.0	.0		3.8	.0	.0	.0	.0	.0	.0		.0
7	.0	.0	1.0	3.4	1.4	.0		5.8	.0	.0	.0	.7	.0	.0		.7
8-9	.0	.0	.0	.0	1.4	.0		1.4	.0	.0	.0	.0	.0	.0		.0
10-11	.0	.0	.0	1.0	1.0	1.0		3.1	.0	.0	.0	.3	.7	.3		1.4
12	.0	.0	.0	.0	.0	.0		.0	.0	.0	.0	.0	.0	.0		.0
13-16	.0	.0	.0	.0	.0	.0		.0	.0	.0	.0	.0	.0	.0		.0
17-19	.0	.0	.0	.0	.0	.0		.0	.0	.0	.0	.0	.0	.0		.0
20-22	.0	.0	.0	.0	.0	.0		.0	.0	.0	.0	.0	.0	.0		.0
23-25	.0	.0	.0	.0	.0	.0		.0	.0	.0	.0	.0	.0	.0		.0
26-32	.0	.0	.0	.0	.0	.0		.0	.0	.0	.0	.0	.0	.0		.0
33-40	.0	.0	.0	.0	.0	.0		.0	.0	.0	.0	.0	.0	.0		.0
41-48	.0	.0	.0	.0	.0	.0		.0	.0	.0	.0	.0	.0	.0		.0
49-60	.0	.0	.0	.0	.0	.0		.0	.0	.0	.0	.0	.0	.0		.0
61-70	.0	.0	.0	.0	.0	.0		.0	.0	.0	.0	.0	.0	.0		.0
71-86	.0	.0	.0	.0	.0	.0		.0	.0	.0	.0	.0	.0	.0		.0
87+	.0	.0	.0	.0	.0	.0		.0	.0	.0	.0	.0	.0	.0		.0
TOT PCT	.0	4.8	7.5	4.5	4.8	1.0		22.6	.0	2.1	2.1	2.4	.7	.3		7.5

HGT	W							PCT	NW							PCT	TOTAL PCT
	1-3	4-10	11-21	22-33	34-47	48+			1-3	4-10	11-21	22-33	34-47	48+			
<1	.0	1.4	.0	.0	.0	.0		1.4	.0	.0	.0	.0	.0	.0		.0	
1-2	.0	.0	.0	.0	.0	.0		.0	.0	2.1	1.4	.0	.0	.0		3.4	
3-4	.0	.0	4.8	.0	.0	.0		4.8	.0	.0	1.4	1.7	.0	.0		3.1	
5-6	.0	.0	1.4	1.0	1.0	.0		3.4	.3	.0	1.4	2.1	.3	.0		4.1	
7	.0	.0	.0	1.4	.0	.0		1.4	.0	.0	3.1	.0	.0	.0		3.1	
8-9	.0	.0	.0	.0	.0	.0		.0	.0	.0	.0	.0	.0	.0		.0	
10-11	.0	.0	.0	1.4	2.1	.0		3.4	.0	.0	.0	1.4	.3	.0		1.7	
12	.0	.0	.0	.0	.0	.0		.0	.0	.0	.0	1.4	.0	.0		1.4	
13-16	.0	.0	1.0	.0	.0	.0		1.0	.0	.0	.3	.0	.0	.0		.3	
17-19	.0	.0	.0	.0	.0	.0		.0	.0	.0	.0	.0	.0	.0		.0	
20-22	.0	.0	.0	.0	.0	.0		.0	.0	.0	.0	.0	.0	.0		.0	
23-25	.0	.0	.0	.0	.0	.0		.0	.0	.0	.0	.0	.0	.0		.0	
26-32	.0	.0	.0	.0	.0	.0		.0	.0	.0	.0	.0	.0	.0		.0	
33-40	.0	.0	.0	.0	.0	.0		.0	.0	.0	.0	.0	.0	.0		.0	
41-48	.0	.0	.0	.0	.0	.0		.0	.0	.0	.0	.0	.0	.0		.0	
49-60	.0	.0	.0	.0	.0	.0		.0	.0	.0	.0	.0	.0	.0		.0	
61-70	.0	.0	.0	.0	.0	.0		.0	.0	.0	.0	.0	.0	.0		.0	
71-86	.0	.0	.0	.0	.0	.0		.0	.0	.0	.0	.0	.0	.0		.0	
87+	.0	.0	.0	.0	.0	.0		.0	.0	.0	.0	.0	.0	.0		.0	
TOT PCT	.0	1.4	7.2	3.8	3.1	.0		15.4	.3	2.1	7.5	6.5	.7	.0		17.1	100.0

WIND SPEED (KTS) VS SEA HEIGHT (FT)

HGT	0-3	4-10	11-21	22-33	34-47	48+	PCT	TOT
								OBS
<1	.0	2.7	.0	.0	.0	.0	2.7	
1-2	.0	13.7	5.5	.0	.0	.0	19.2	
3-4	.0	5.5	16.4	6.8	.0	.0	28.6	
5-6	1.4	.0	13.7	4.1	2.7	.0	21.9	
7	.0	.0	5.5	5.5	1.4	.0	12.3	
8-9	.0	.0	.0	1.4	1.4	.0	2.7	
10-11	.0	.0	.0	4.1	4.1	1.4	9.6	
12	.0	.0	.0	1.4	.0	.0	1.4	
13-16	.0	.0	1.4	.0	.0	.0	1.4	
17-19	.0	.0	.0	.0	.0	.0	.0	
20-22	.0	.0	.0	.0	.0	.0	.0	
23-25	.0	.0	.0	.0	.0	.0	.0	
26-32	.0	.0	.0	.0	.0	.0	.0	
33-40	.0	.0	.0	.0	.0	.0	.0	
41-48	.0	.0	.0	.0	.0	.0	.0	
49-60	.0	.0	.0	.0	.0	.0	.0	
61-70	.0	.0	.0	.0	.0	.0	.0	
71-86	.0	.0	.0	.0	.0	.0	.0	
87+	.0	.0	.0	.0	.0	.0	.0	
TOT PCT	1.4	21.9	42.5	23.3	9.6	1.4	100.0	73

PERIOD: (OVER-ALL) 1960-1969

TABLE 19

PERCENT FREQUENCY OF WAVE HEIGHT (FT) VS WAVE PERIOD (SECONDS)

PERIOD (SEC)	<1	1-2	3-4	5-6	7	8-9	10-11	12	13-16	17-19	20-22	23-25	26-32	33-40	41-48	49-60	61-70	71-86	87+	TOTAL	MEAN HGT
<6	.0	5.1	8.9	6.3	1.3	.0	1.3	.0	.0	1.3	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	19
6-7	.0	1.3	3.8	15.2	3.8	3.8	1.3	1.3	3.8	.0	.0	1.3	1.3	.0	.0	.0	.0	.0	.0	.0	29
8-9	.0	.0	1.3	3.8	3.8	2.5	1.3	6.3	3.8	1.3	1.3	1.3	.0	.0	.0	.0	.0	.0	.0	.0	22
10-11	.0	.0	.0	5.1	.0	3.8	1.3	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	8
12-13	.0	.0	.0	.0	.0	.0	.0	1.3	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	1
>13	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	0
INDET	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	0
TOTAL	.0	5	11	24	7	8	4	7	6	2	1	2	2	0	0	0	0	0	0	0	79
PCT	.0	6.3	13.9	30.4	8.9	10.1	5.1	8.9	7.6	2.5	1.3	2.5	2.5	.0	.0	.0	.0	.0	.0	.0	100.0

## OCTOBER

PERIOD: (PRIMARY) 1891-1969  
(OVER-ALL) 1854-1969

AREA 0010 TASMANIA EAST  
42.75 148.0E

TABLE 1

## PERCENT FREQUENCY OF WEATHER OCCURRENCE BY WIND DIRECTION

WIND DIR	PRECIPITATION TYPE							OTHER WEATHER PHENOMENA						
	RAIN	RAIN SHWR	DRZL	FRZG PCPN	SNOW	OTHER FRZN PCPN	HAIL	PCPN AT DB TIME	PCPN PAST HOUR	THDR LTNG	FOG WD PCPN	FOG WD PCPN PAST HR	SMDKE HAZE	SPRAY BLWG DUST SIG WEA
N	4.2	8.4	2.1	.0	.0	.0	.0	14.7	.0	.0	2.1	1.6	8.4	.0 73.3
NE	6.1	1.2	.0	.0	.0	.0	.0	7.4	.0	.0	33.7	.6	.0	.0 58.3
E	15.2	.0	10.8	.0	.0	.0	.0	27.0	.0	.0	13.5	.0	10.8	.0 48.6
SE	.0	.0	10.5	.0	.0	.0	.0	10.5	.0	.0	.0	.0	.0	.0 89.5
S	.0	8.0	.0	.0	.0	.0	4.0	12.0	4.0	.0	2.0	.0	.0	.0 82.0
SW	5.3	15.9	1.8	.0	.0	.0	3.5	26.5	4.0	.0	.9	.0	.0	.0 58.6
W	2.0	13.7	2.0	.0	.0	.0	.0	17.6	1.5	.0	3.9	.0	.0	.0 77.0
NW	.0	5.9	.0	.0	.0	.0	.0	5.9	.0	.0	2.4	.0	.0	.0 91.7
VAR	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0 100.0
CALM	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0 100.0
TOT PCT	3.5	8.7	1.7	.0	.0	.0	1.0	15.0	1.4	.0	7.0	.3	1.7	.0 74.5
TOT OBS:	286													

TABLE 2

## PERCENT FREQUENCY OF WEATHER OCCURRENCE BY HOUR

HOUR (GMT)	PRECIPITATION TYPE							OTHER WEATHER PHENOMENA						
	RAIN	RAIN SHWR	DRZL	FRZG PCPN	SNOW	OTHER FRZN PCPN	HAIL	PCPN AT DB TIME	PCPN PAST HOUR	THDR LTNG	FOG WD PCPN	FOG WD PCPN PAST HR	SMDKE HAZE	SPRAY BLWG DUST SIG WEA
00003	1.8	10.7	5.4	.0	.0	.0	.0	17.9	1.8	.0	7.1	.0	3.6	.0 69.6
06009	4.8	9.5	.0	.0	.0	.0	1.0	15.2	1.9	.0	8.6	1.0	2.9	.0 70.5
12015	1.6	8.2	.0	.0	.0	.0	.0	9.8	.0	.0	3.3	.0	.0	.0 86.9
18021	4.0	5.3	2.7	.0	.0	.0	2.7	14.7	1.3	.0	6.7	.0	.0	.0 77.3
TOT PCT	3.4	8.4	1.7	.0	.0	.0	1.0	14.5	1.3	.0	6.7	.3	1.7	.0 75.4
TOT OBS:	297													

TABLE 3

## PERCENTAGE FREQUENCY OF WIND DIRECTION BY SPEED AND BY HOUR

WIND DIR	WIND SPEED (KNOTS)							TOTAL OBS	PCT FREQ	MEAN SPD	HOUR (GMT)							
	0-3	4-10	11-21	22-33	34-47	48+					00	03	06	09	12	15	18	21
N	.3	7.1	5.3	3.9	.3	.3		17.3	15.0		21.4	17.9	15.8	12.5	12.5	24.0	17.6	14.3
NE	.4	7.5	4.1	.6	.3	.0		12.9	11.0		22.6	7.5	12.9	22.9	1.8	8.3	12.7	12.5
E	.9	1.5	.6	.3	.0	.0		3.3	10.4		8.3	.9	7.1	2.1	5.4	2.1	.0	5.4
SE	.0	1.5	.9	.8	.0	.0		3.3	14.2		4.8	5.7	2.5	6.3	.0	1.0	2.9	.0
S	1.0	3.1	3.2	1.7	.2	.0		9.1	13.0		4.8	10.4	10.8	8.3	7.1	7.3	10.8	8.9
SW	.9	5.4	6.9	4.2	1.1	.2		18.6	17.2		17.9	18.9	17.5	19.8	30.4	13.5	21.6	16.1
W	.9	4.3	6.3	3.4	1.9	.5		17.2	18.7		20.2	17.9	20.0	14.6	23.2	24.0	12.7	5.4
NW	.0	8.5	3.0	4.0	.3	.9		16.8	16.1		.0	18.9	13.3	13.5	19.6	19.8	15.7	33.9
VAR	.0	.0	.0	.0	.0	.0		.0	.0		.0	.0	.0	.0	.0	.0	.0	.0
CALM	1.5							1.5	.0		.0	1.9	.0	.0	.0	.0	5.9	3.6
TOT OBS	19	126	98	61	13	6	393		15.1		21	53	60	48	14	48	51	28
TOT PCT	5.9	39.0	30.3	18.9	4.0	1.9		100.0			100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0

TABLE 3A

WIND DIR	WIND SPEED (KNOTS)					TOTAL OBS	PCT FREQ	MEAN SPD	HOUR (GMT)			
	0-6	7-16	17-27	28-40	41+				00	03	09	18
N	3.1	8.4	3.7	1.4	.6		17.3	15.0	18.9	14.4	21.4	16.5
NE	2.6	8.9	.9	.5	.0		12.9	11.0	11.8	17.4	6.9	12.7
E	1.0	1.7	.3	.3	.0		3.3	10.4	3.0	4.9	2.8	1.9
SE	.6	1.4	.9	.3	.0		3.3	14.2	5.4	4.2	.8	1.9
S	2.4	3.8	2.5	.5	.0		9.1	13.0	8.8	9.7	7.3	10.1
SW	2.1	8.3	4.2	3.6	.5		18.6	17.2	18.6	18.5	17.3	19.6
W	1.8	6.8	5.1	2.4	1.1		17.2	18.7	18.6	17.6	23.8	10.1
NW	3.7	7.1	3.1	1.9	.9		16.8	16.1	13.5	13.4	19.8	22.2
VAR	.0	.0	.0	.0	.0		.0	.0	.0	.0	.0	.0
CALM	1.5						1.5	.0	1.4	.0	.0	5.1
TOT OBS	61	150	67	35	10	323		15.1	74	108	82	79
TOT PCT	18.9	46.4	20.7	10.8	3.1		100.0		100.0	100.0	100.0	100.0



PERIOD: (PRIMARY) 1891-1969  
(OVER-ALL) 1854-1969

OCTOBER

AREA 0010 TASMANIA EAST  
42.75 148.6E

TABLE 4

PERCENTAGE FREQUENCY OF WIND SPEED BY HOUR (GMT)

WIND	CALM	WIND SPEED (KNOTS)						48+	MEAN	PCT FREQ	TOTAL DBS
		1-3	4-10	11-21	22-33	34-47					
00003	1.4	1.4	33.8	29.7	25.7	2.7	5.4	17.9	100.0		74
06009	.0	3.7	38.9	34.3	16.7	5.6	.9	15.3	100.0		108
12015	.0	3.2	41.9	32.3	17.7	3.2	1.6	15.0	100.0		62
18021	5.1	8.9	41.8	24.1	16.5	3.8	.0	12.4	100.0		79
TOT	5	14	126	98	61	13	6	15.1			323
PCT	1.5	4.3	39.0	30.3	18.9	4.0	1.9	100.0			

TABLE 5

PCT FREQ OF TOTAL CLOUD AMOUNT (EIGHTHS)  
BY WIND DIRECTION

WIND DIR	0-2	3-4	5-7	8 & DBSCD	TOTAL DBS	MEAN CLOUD COVER
N	3.9	.0	8.6	4.7		5.5
NE	.8	.0	.8	7.8		7.2
E	1.2	1.6	.0	3.1		5.2
SE	.0	.0	1.6	1.6		7.0
S	.0	4.3	3.1	3.9		5.9
SW	6.6	2.0	7.4	3.9		4.7
W	6.6	4.7	6.3	.0		3.5
NW	5.9	1.6	3.5	1.6		4.0
VAR	.0	.0	.0	.0		.0
CALM	3.1	.0	.0	.0		.0
TOT DBS	18	9	20	17	64	4.9
TOT PCT	28.1	14.1	31.3	26.6	100.0	

TABLE 6

PERCENTAGE FREQUENCY OF CEILING HEIGHTS (FT, NH >4/8)  
AND OCCURRENCE OF NH <5/8 BY WIND DIRECTION

	000	150	300	600	1000	2000	3500	5000	6500	8000+	NH <5/8 ANY HGT	TOTAL DBS
	149	299	599	999	1999	3999	4999	6499	7999			
N	.0	.0	1.6	1.6	5.5	.0	1.6	.0	.0	.0	7.0	
NE	1.6	.0	.0	3.1	3.9	.0	.0	.0	.0	.0	.8	
E	.0	.0	1.6	.0	1.6	.0	.0	.0	.0	.0	2.7	
SE	.0	.0	.0	1.6	.0	1.6	.0	.0	.0	.0	.0	
S	.0	.0	1.6	.0	3.9	1.6	.0	.0	.0	.0	4.3	
SW	.0	.0	.0	3.9	4.3	1.6	.0	.0	.0	.0	10.2	
W	.0	.0	.0	.8	2.7	1.6	.0	.0	.0	.0	12.5	
NW	.0	.0	.0	1.6	1.6	.0	.0	.0	.0	.0	9.4	
VAR	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
CALM	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	3.1	
TOT DBS	1	0	3	7	15	5	1	0	0	0	32	64
TOT PCT	1.6	.0	4.7	10.9	23.4	7.8	1.6	.0	.0	.0	50.0	100.0

TABLE 7

CUMULATIVE PCT FREQ OF SIMULTANEOUS OCCURRENCE  
OF CEILING HEIGHT (NH >4/8) AND VSBY (NM)

CEILING (FEET)	VSBY (NM)							
	>10	>5	>2	>1	>1/2	>1/4	>50YD	>0
>6500	.0	.0	.0	.0	.0	.0	.0	.0
>6000	.0	.0	.0	.0	.0	.0	.0	.0
>5500	1.5	1.5	1.5	1.5	1.5	1.5	1.5	1.5
>5000	8.8	8.8	8.8	8.8	8.8	8.8	8.8	8.8
>4500	27.9	30.9	30.9	30.9	30.9	30.9	30.9	30.9
>4000	35.3	44.1	44.1	44.1	44.1	44.1	44.1	44.1
>3500	35.3	44.1	48.5	48.5	48.5	48.5	48.5	48.5
>3000	35.3	44.1	48.5	48.5	48.5	48.5	48.5	48.5
>2500	35.3	44.1	48.5	48.5	48.5	48.5	48.5	48.5
>2000	35.3	44.1	48.5	48.5	48.5	48.5	50.0	50.0
TOTAL	24	30	33	33	33	33	34	34

TOTAL NUMBER OF DBS: 68

PCT FREQ NH <5/8: 50.0

TABLE 7A

PERCENTAGE FREQ OF LOW CLOUDS (EIGHTHS)

	0	1	2	3	4	5	6	7	8 DBSCD	TOTAL DBS
	11.1	11.1	15.3	5.6	6.9	6.9	8.3	8.3	25.0	72

## OCTOBER

PERIOD: (PRIMARY) 1891-1969  
(OVER-ALL) 1854-1969

AREA 0010 TASMANIA EAST  
42.75 148.6E

TABLE 8

PERCENT FREQ OF WIND DIRECTION VS OCCURRENCE OR NON-OCCURRENCE OF  
PRECIPITATION WITH VARYING VALUES OF VISIBILITY

VSBY (NM)		N	NE	E	SE	S	SW	W	NW	VAR	CALM	PCT	TOTAL OBS
<1/2	PCP	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
	NO PCP	.0	.8	.3	.0	.0	.0	.3	.0	.0	.0	1.4	
	TOT %	.0	.8	.3	.0	.0	.0	.3	.0	.0	.0	1.4	
1/2<1	PCP	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
	NO PCP	.3	3.3	.2	.0	.2	.2	.3	.3	.0	.0	4.9	
	TOT %	.3	3.3	.2	.0	.2	.2	.3	.3	.0	.0	4.9	
1<2	PCP	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
	NO PCP	1.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	1.0	
	TOT %	1.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	1.0	
2<5	PCP	.7	.0	.3	.0	.0	.0	.3	.0	.0	.0	1.4	
	NO PCP	.6	.1	.0	.0	.3	.0	.0	.0	.0	.0	1.0	
	TOT %	1.3	.1	.3	.0	.3	.0	.3	.0	.0	.0	2.4	
5<10	PCP	1.7	.7	.2	.3	1.0	4.9	2.8	.9	.0	.0	12.6	
	NO PCP	7.8	6.4	1.0	1.7	2.8	8.3	8.0	7.7	.0	.7	44.4	
	TOT %	9.5	7.1	1.2	2.1	3.8	13.2	10.8	8.6	.0	.7	57.0	
10+	PCP	.0	.3	.3	.0	.0	.3	.0	.0	.0	.0	1.0	
	NO PCP	4.5	2.6	.9	1.2	4.4	6.0	6.0	5.9	.0	.7	32.2	
	TOT %	4.5	3.0	1.2	1.2	4.4	6.4	6.0	5.9	.0	.7	33.2	
TOT OBS													
TOT PCT													
		16.7	14.2	3.2	3.3	8.7	19.8	17.8	14.8	.0	1.4	100.0	286

TABLE 9

PERCENT FREQ OF WIND DIRECTION VS WIND SPEED  
WITH VARYING VALUES OF VISIBILITY

VSBY (NM)	SPD KTS	N	NE	E	SE	S	SW	W	NW	VAR	CALM	PCT	TOTAL OBS
<1/2	0-3	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
	4-10	.0	.8	.3	.0	.0	.0	.0	.0	.0	.0	1.0	
	11-21	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
	22+	.0	.0	.0	.0	.0	.0	.3	.0	.0	.0	.3	
	TOT %	.0	.8	.3	.0	.0	.0	.3	.0	.0	.0	1.4	
1/2<1	0-3	.0	.0	.0	.0	.2	.2	.3	.0	.0	.0	.7	
	4-10	.3	2.1	.0	.0	.0	.0	.0	.3	.0	.0	2.7	
	11-21	.0	.9	.2	.0	.0	.0	.0	.0	.0	.0	1.0	
	22+	.0	.3	.0	.0	.0	.0	.0	.0	.0	.0	.3	
	TOT %	.3	3.3	.2	.0	.2	.2	.3	.3	.0	.0	4.8	
1<2	0-3	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
	4-10	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
	11-21	1.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	1.0	
	22+	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
	TOT %	1.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	1.0	
2<5	0-3	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
	4-10	.3	.1	.3	.0	.3	.0	.0	.0	.0	.0	1.0	
	11-21	.0	.0	.0	.0	.0	.0	.3	.0	.0	.0	.3	
	22+	1.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	1.0	
	TOT %	1.3	.1	.3	.0	.3	.0	.3	.0	.0	.0	2.4	
5<10	0-3	.0	.3	.7	.0	.3	.7	.3	.0	.0	.7	3.1	
	4-10	3.2	3.2	.3	.5	.9	3.6	2.9	4.3	.0	.0	18.9	
	11-21	3.6	2.9	.2	.7	.9	4.0	3.4	1.9	.0	.0	17.3	
	22+	2.6	.5	.0	.9	1.7	4.7	3.9	2.2	.0	.0	16.5	
	TOT %	9.4	7.0	1.2	2.1	3.8	13.0	10.6	8.4	.0	.7	56.0	
10+	0-3	.3	.1	.3	.0	.6	.1	.3	.0	.0	.7	2.4	
	4-10	3.3	2.1	.3	1.0	2.1	2.4	1.8	3.6	.0	.0	16.5	
	11-21	.9	.8	.3	.2	2.0	3.2	3.2	1.5	.0	.0	12.0	
	22+	.5	.0	.3	.0	.0	.9	.9	.7	.0	.0	3.4	
	TOT %	5.1	2.9	1.2	1.2	4.6	6.6	6.3	5.8	.0	.7	34.4	
TOT OBS													
TOT PCT													
		17.1	14.0	3.2	3.3	8.9	19.8	17.9	14.5	.0	1.4	100.0	291

## OCTOBER

PERIOD: (PRIMARY) 1891-1969  
(OVER-ALL) 1854-1969

AREA 0010 TASMANIA EAST  
42.75 148.6E

TABLE 10

PERCENT FREQUENCY OF CEILING HEIGHTS (FEET, NH >4/8) AND  
OCCURRENCE OF NH <5/8 BY HOUR

HOURL (GMT)	000 149	150 299	300 599	600 999	1000 1999	2000 3499	3500 4999	5000 6499	6500 7999	8000+	TOTAL	NH <5/8 ANY HGT	TOTAL OBS
00003	4.8	.0	4.8	23.8	14.3	9.5	.0	.0	.0	.0	57.1	42.9	21
06009	.0	.0	8.3	8.3	33.3	.0	.0	.0	.0	.0	50.0	50.0	24
12015	.0	.0	.0	14.3	.0	14.3	7.1	.0	.0	.0	35.7	64.3	14
18021	.0	.0	.0	.0	36.4	9.1	.0	.0	.0	.0	45.5	54.5	11
TOT	1	0	3	9	15	5	1	0	0	0	34	36	70
PCT	1.4	.0	4.3	12.9	21.4	7.1	1.4	.0	.0	.0	48.6	51.4	100.0

TABLE 11

PERCENT FREQUENCY VSBY (NM) BY HOUR

HOURL (GMT)	<1/2	1/2<1	1<2	2<5	5<10	10+	TOTAL OBS
00003	3.6	3.6	1.8	3.6	55.4	32.1	56
06009	.9	6.5	1.9	4.7	53.3	32.7	107
12015	1.6	1.6	.0	.0	50.8	46.0	63
18021	.0	5.3	.0	.0	63.2	31.6	76
TOT	4	14	3	7	168	106	302
PCT	1.3	4.6	1.0	2.3	55.6	35.1	100.0

TABLE 12

CUMULATIVE PCT FREQ OF RANGES OF VSBY (NM) AND/OR  
CEILING HGT (FEET, NH >4/8) BY HOUR

HOURL (GMT)	<150 <500	<600 <1	<1000 <5	1000+ AND 5+	NH <5/8 AND 5+	TOTAL OBS
00003	4.8	9.5	33.3	23.8	42.9	21
06009	.0	8.7	17.4	34.8	47.8	23
12015	.0	.0	14.3	21.4	64.3	14
18021	.0	.0	.0	50.0	50.0	10
TOT	1	4	13	21	34	68
PCT	1.5	5.9	19.1	30.9	50.0	100.0

TABLE 13

PERCENT FREQUENCY OF RELATIVE HUMIDITY BY TEMP

TEMP F	0-29	30-39	40-49	50-59	60-69	70-79	80-89	90-100	TOTAL OBS	PCT FREQ
60/64	.0	.0	.0	1.0	1.0	1.0	.0	2.9	6	5.9
55/59	.0	.0	1.0	.0	2.9	6.9	13.7	11.8	37	36.3
50/54	.0	.0	2.0	3.0	11.8	9.8	9.8	7.8	46	45.1
45/49	.0	.0	.0	2.9	2.9	2.9	2.0	1.0	12	11.8
40/44	.0	.0	.0	.0	.0	1.0	.0	.0	1	1.0
TOTAL	0	0	3	8	19	22	26	24	102	100.0
PCT	.0	.0	2.9	7.8	18.6	21.6	25.5	23.5		

TABLE 14

PERCENT FREQUENCY OF WIND DIRECTION BY TEMP

	N	NE	E	SE	S	SW	W	NW	VAR	CALM
1.7	2.2	.0	.0	.0	.0	.0	.0	2.0	.0	.0
10.0	7.4	4.9	1.0	1.0	.0	4.7	7.4	.0	.0	.0
3.7	1.5	.7	1.0	5.4	11.3	10.5	7.1	.0	3.9	.0
.0	.0	.0	.0	2.5	4.4	4.4	.5	.0	.0	.0
.0	.0	.0	.0	.0	1.0	.0	.0	.0	.0	.0
15.4	11.0	5.6	2.0	8.8	16.7	19.6	16.9	.0	3.9	.0

TABLE 15

MEANS, EXTREMES AND PERCENTILES OF TEMP (DEG F) BY HOUR

HOURL (GMT)	MAX	99%	95%	50%	5%	1%	MIN	MEAN	TOTAL OBS
00003	63	62	61	54	48	46	46	53.7	74
06009	64	61	59	54	48	46	46	53.3	110
12015	61	60	58	52	47	45	45	52.4	86
18021	60	59	58	52	46	44	44	51.9	82
TOT	64	61	59	53	47	45	44	52.9	332

TABLE 16

PERCENT FREQUENCY OF RELATIVE HUMIDITY BY HOUR

HOURL (GMT)	0-29	30-59	60-69	70-79	80-89	90-100	MEAN	TOTAL OBS
00003	.0	8.0	12.0	20.0	28.0	32.0	82	25
06009	.0	13.2	18.4	21.1	34.2	13.2	77	38
12015	.0	13.0	21.7	17.4	34.8	13.0	76	23
18021	.0	4.5	22.7	27.3	9.1	36.4	80	22
TOT	0	11	20	23	30	24	78	108

## OCTOBER

PERIOD: (PRIMARY) 1891-1969  
(OVER-ALL) 1854-1969

AREA 0010 TASMANIA EAST  
42.7S 148.6E

TABLE 17

PCT FREQ OF AIR TEMPERATURE (DEG F) AND THE OCCURRENCE OF FOG (WITHOUT PRECIPITATION)  
VS AIR-SEA TEMPERATURE DIFFERENCE (DEG F)

AIR-SEA TMP DIF	41 44	45 48	49 52	53 56	57 60	61 64	TOT	W FOG	WN FOG
7/8	.0	.0	.0	.0	.0	1.1	3	.0	1.1
6	.0	.0	.0	.0	.4	.0	1	.0	.4
5	.0	.0	.0	.7	.7	1.1	7	.4	2.1
4	.0	.0	.0	1.1	1.8	.0	8	.0	2.8
3	.0	.4	.0	1.4	2.8	.0	13	.0	4.6
2	.0	.0	1.8	3.5	2.8	.0	23	.7	7.4
1	.0	.0	3.5	6.4	2.5	.0	35	2.5	9.9
0	.0	.0	6.4	8.2	2.1	.0	47	1.4	15.2
-1	.0	.0	5.3	6.4	.4	.0	34	1.8	10.3
-2	.0	.4	9.2	3.2	.4	.0	37	.0	13.1
-3	.0	1.8	6.0	.7	.4	.0	25	.4	8.5
-4	.0	2.1	1.1	2.1	.0	.0	15	.0	5.3
-5	.0	3.5	1.4	.7	.0	.0	16	.0	5.7
-6	.0	1.8	1.1	1.1	.0	.0	11	.0	3.9
-7/-8	.0	1.8	.0	.0	.0	.0	5	.0	1.8
-9/-10	.4	.4	.0	.0	.0	.0	2	.0	.7
TOTAL	1		101		40		282	20	262
	34		100		6				
PCT	.4	12.1	35.8	35.5	14.2	2.1	100.0	7.1	92.9

PERIOD: (OVER-ALL) 1943-1969

TABLE 18

PCT FREQ OF WIND SPEED (KTS) AND DIRECTION VERSUS SEA HEIGHTS (FT)

HGT	1-3	4-10	11-21	22-33	34-47	48+	PCT	1-3	4-10	11-21	22-33	34-47	48+	PCT
<1	.0	.0	.0	.0	.0	.0	.0	.0	1.7	.0	.0	.0	.0	1.7
1-2	.0	8.3	1.3	.0	.0	.0	9.6	.4	8.8	.4	.0	.0	.0	9.6
3-4	.0	.0	1.7	.0	.0	.0	1.7	.0	.0	.0	.0	.0	.0	.0
5-6	.0	.0	1.7	.0	.0	.0	1.7	.0	.0	.0	.0	.0	.0	.0
7	.0	.0	.0	.0	.0	.0	.0	.0	1.7	.0	.0	.0	.0	1.7
8-9	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
10-11	.0	.0	.0	.0	.0	1.7	1.7	.0	.0	.0	.0	.0	.0	.0
12	.0	.0	.0	.0	1.7	.0	1.7	.0	.0	.0	.0	.0	.0	.0
13-16	.0	.0	.0	1.7	.0	.0	1.7	.0	.0	.0	.0	.0	.0	.0
17-19	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
20-22	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
23-25	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
26-32	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
33-40	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
41-48	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
49-60	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
61-70	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
71-86	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
87+	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
TOT PCT	.0	8.3	4.6	1.7	1.7	1.7	17.9	.4	12.1	.4	.0	.0	.0	12.9

HGT	1-3	4-10	11-21	22-33	34-47	48+	PCT	1-3	4-10	11-21	22-33	34-47	48+	PCT
<1	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
1-2	1.3	2.5	.0	.0	.0	.0	3.8	.0	1.7	.0	.0	.0	.0	1.7
3-4	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
5-6	.0	1.7	1.7	.0	.0	.0	3.3	.0	.0	.0	.0	.0	.0	.0
7	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
8-9	.0	.0	.0	.0	.0	.0	.0	.0	.0	1.7	.0	.0	.0	1.7
10-11	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
12	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
13-16	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
17-19	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
20-22	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
23-25	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
26-32	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
33-40	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
41-48	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
49-60	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
61-70	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
71-86	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
87+	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
TOT PCT	1.3	4.2	1.7	.0	.0	.0	7.1	.0	1.7	1.7	.0	.0	.0	3.3

PERIOD: (OVER-ALL) 1963-1969

OCTOBER

AREA 0010 TASMANIA EAST  
42.75 148.6E

TABLE 18 (CONT)

PCT FREQ OF WIND SPEED (KTS) AND DIRECTION VERSUS SEA HEIGHTS (FT)

HGT	1-3	4-10	11-21	22-33	34-47	48+	PCT	1-3	4-10	11-21	22-33	34-47	48+	PCT
<1	1.3	2.9	.0	.0	.0	.0	4.2	.4	.4	.0	.0	.0	.0	.8
1-2	.0	1.3	.0	.0	.0	.0	1.3	.0	3.8	.0	.0	.0	.0	3.8
3-4	.0	1.7	4.6	.0	.0	.0	6.3	.0	.0	.4	.0	.0	.0	.4
5-6	.0	.0	1.7	.0	.0	.0	1.7	.0	.0	3.3	.4	.0	.0	3.8
7	.0	.0	.0	.0	.0	.0	.0	.0	1.7	3.3	1.7	.0	.0	6.7
8-9	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
10-11	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
12	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
13-16	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
17-19	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
20-22	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
23-25	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
26-32	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
33-40	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
41-48	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
49-60	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
61-70	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
71-86	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
87+	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
TOT PCT	1.3	5.8	6.3	.0	.0	.0	13.3	.4	5.8	7.1	2.1	.0	.0	15.4

HGT	1-3	4-10	11-21	22-33	34-47	48+	PCT	1-3	4-10	11-21	22-33	34-47	48+	PCT	TOTAL PCT
<1	.0	1.3	.0	.0	.0	.0	1.3	.0	.4	.0	.0	.0	.0	.4	
1-2	.0	1.7	.0	.0	.0	.0	1.7	.0	2.1	.0	.0	.0	.0	2.1	
3-4	.0	.0	5.0	.0	.0	.0	5.0	.0	3.3	1.7	.0	.0	.0	5.0	
5-6	.0	.0	.0	2.5	.0	.0	2.5	.0	1.7	.0	.4	.0	.0	2.1	
7	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
8-9	.0	.0	.0	1.3	.0	.0	1.3	.0	.0	.0	.4	.0	.0	.4	
10-11	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
12	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
13-16	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
17-19	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
20-22	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
23-25	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
26-32	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
33-40	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
41-48	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
49-60	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
61-70	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
71-86	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
87+	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
TOT PCT	.0	2.9	10.0	3.8	.0	.0	16.7	.0	7.5	1.7	.8	.0	.0	10.0	96.7

WIND SPEED (KTS) VS SEA HEIGHT (FT)

HGT	0-3	4-10	11-21	22-33	34-47	48+	PCT	TOT OBS
<1	6.5	8.1	.0	.0	.0	.0	14.5	
1-2	1.6	29.0	1.6	.0	.0	.0	32.3	
3-4	.0	4.8	12.9	.0	.0	.0	17.7	
5-6	.0	3.2	12.9	3.2	.0	.0	19.4	
7	.0	3.2	3.2	1.6	.0	.0	8.1	
8-9	.0	.0	1.6	1.6	.0	.0	3.2	
10-11	.0	.0	.0	.0	.0	1.6	1.6	
12	.0	.0	.0	.0	1.6	.0	1.6	
13-16	.0	.0	.0	1.6	.0	.0	1.6	
17-19	.0	.0	.0	.0	.0	.0	.0	
20-22	.0	.0	.0	.0	.0	.0	.0	
23-25	.0	.0	.0	.0	.0	.0	.0	
26-32	.0	.0	.0	.0	.0	.0	.0	
33-40	.0	.0	.0	.0	.0	.0	.0	
41-48	.0	.0	.0	.0	.0	.0	.0	
49-60	.0	.0	.0	.0	.0	.0	.0	
61-70	.0	.0	.0	.0	.0	.0	.0	
71-86	.0	.0	.0	.0	.0	.0	.0	
87+	.0	.0	.0	.0	.0	.0	.0	
TOT PCT	8.1	48.4	32.3	8.1	1.6	1.6	100.0	62

PERIOD: (OVER-ALL) 1952-1969

TABLE 19

PERCENT FREQUENCY OF WAVE HEIGHT (FT) VS WAVE PERIOD (SECONDS)

PERIOD (SEC)	<1	1-2	3-4	5-6	7	8-9	10-11	12	13-16	17-19	20-22	23-25	26-32	33-40	41-48	49-60	61-70	71-86	87+	TOTAL	MEAN HGT
<6	.0	8.6	14.3	4.3	5.7	.0	2.9	.0	2.9	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	27
6-7	.0	1.4	4.3	4.3	11.4	7.1	4.3	.0	.0	.0	.0	1.4	.0	.0	.0	.0	.0	.0	.0	.0	24
8-9	.0	.0	2.9	.0	2.9	1.4	.0	.0	1.4	.0	.0	.0	1.4	.0	.0	.0	.0	.0	.0	.0	7
10-11	.0	.0	.0	2.9	2.9	1.4	1.4	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	8
12-13	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	2
13-14	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	3
14-15	.0	.0	1.4	1.4	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	2
TOTAL	.0	7	16	9	16	10	6	1	2	1	0	0	2	0	0	0	0	0	0	0	70
PCT	.0	10.0	22.9	12.9	22.9	14.3	8.6	1.4	2.9	1.4	.0	.0	2.9	.0	.0	.0	.0	.0	.0	.0	100.0



NOVEMBER

PERIOD: (PRIMARY) 1892-1969  
(OVER-ALL) 1863-1969

AREA 0010 TASMANIA EAST  
42.95 148.6E

TABLE 1

PERCENT FREQUENCY OF WEATHER OCCURRENCE BY WIND DIRECTION

WIND DIR	PRECIPITATION TYPE							OTHER WEATHER PHENOMENA							NO SIG WEA
	RAIN	RAIN SHWR	DRZL	FRZG PCPN	SNOW	OTHER FRZN PCPN	HAIL	PCPN AT DB TIME	PCPN PAST HOUR	THOR LTNG	FOG PCPN	FOG WD PCPN PAST HR	SMOKE HAZE	SPRAY BLWG DUST BLWG SNOW	
N	1.9	1.9	.0	.0	.0	.0	.0	3.9	.0	.0	12.6	.0	.0	.0	83.5
NE	15.6	3.1	.0	.0	.0	.0	.0	18.8	.0	.0	17.2	.0	.0	.0	64.1
E	7.1	.0	4.8	.0	.0	.0	.0	11.9	4.8	4.8	28.6	.0	.0	.0	50.0
SE	5.1	.0	.0	.0	.0	.0	.0	5.1	5.1	2.5	5.1	.0	5.1	.0	79.7
S	12.8	6.4	4.3	.0	.0	.0	2.1	25.7	2.1	1.1	3.2	.0	.0	.0	69.0
SW	2.7	6.4	10.0	.0	.0	.0	1.8	20.9	.0	1.8	.9	.0	.0	.0	78.2
W	5.8	11.7	2.2	.0	.0	.0	.0	19.7	.0	.7	.7	.0	2.9	.0	76.6
NW	2.1	11.6	.0	.0	.0	.0	.0	13.7	.0	1.1	1.1	.0	.0	.0	85.3
VAR	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
CALM	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
TOT PCT	6.1	6.4	2.9	.0	.0	.0	.6	16.1	.9	1.2	6.4	.0	.9	.0	75.4
TOT OBS:	342														

TABLE 2

PERCENT FREQUENCY OF WEATHER OCCURRENCE BY HOUR

HOUR (GMT)	PRECIPITATION TYPE							OTHER WEATHER PHENOMENA							NO SIG WEA
	RAIN	RAIN SHWR	DRZL	FRZG PCPN	SNOW	OTHER FRZN PCPN	HAIL	PCPN AT DB TIME	PCPN PAST HOUR	THOR LTNG	FOG PCPN	FOG WD PCPN PAST HR	SMOKE HAZE	SPRAY BLWG DUST BLWG SNOW	
0000	3.3	6.6	3.3	.0	.0	.0	.0	13.1	.0	.0	4.9	.0	.0	.0	82.0
0600	7.8	7.8	3.5	.0	.0	.0	.0	19.1	.0	.9	7.8	.0	2.6	.0	70.4
1200	8.5	8.5	.0	.0	.0	.0	1.4	18.3	2.8	2.8	4.2	.0	.0	.0	73.2
1800	4.0	4.0	4.0	.0	.0	.0	1.0	13.0	1.0	1.0	7.0	.0	.0	.0	79.0
TOT PCT	6.1	6.6	2.9	.0	.0	.0	.6	16.1	.9	1.2	6.3	.0	.9	.0	75.5
TOT OBS:	347														

TABLE 3

PERCENTAGE FREQUENCY OF WIND DIRECTION BY SPEED AND BY HOUR

WIND DIR	WIND SPEED (KNOTS)							TOTAL OBS	PCT FREQ	MEAN SPD	HOUR (GMT)							
	0-3	4-10	11-21	22-33	34-47	48+					00	03	06	09	12	15	18	21
N	.1	5.8	6.3	2.7	.0	.0		15.0	14.0		7.7	15.6	21.3	17.6	4.8	15.7	11.8	12.2
NE	1.0	4.1	3.2	1.1	.0	.0		9.3	11.6		15.4	10.9	7.4	12.0	9.5	11.8	4.9	7.1
E	.5	2.9	1.1	1.0	.3	.0		5.8	12.5		7.7	4.7	3.3	7.4	19.0	4.9	3.9	5.1
SE	.5	2.2	2.6	.5	.0	.0		5.8	12.4		9.6	7.0	5.3	7.4	1.2	4.9	5.9	5.1
S	.3	2.8	6.5	2.4	1.4	.0		13.4	17.3		13.5	10.9	17.6	18.5	25.0	11.8	5.9	10.2
SW	.0	3.6	6.7	4.9	.9	.0		16.1	18.3		15.4	9.4	17.2	15.7	8.3	16.7	24.0	16.4
W	.1	3.0	10.6	4.7	.7	1.1		20.2	19.4		9.6	22.7	17.6	15.7	13.1	21.6	27.9	21.4
NW	.7	4.5	5.1	2.7	.9	.0		13.9	16.3		21.2	17.2	8.6	5.6	19.0	12.7	15.7	20.4
VAR	.0	.0	.0	.0	.0	.0		.0	.0		.0	.0	.0	.0	.0	.0	.0	.0
CALM	.5							.5	.0		.0	1.6	1.6	.0	.0	.0	.0	.0
TOT OBS	14	105	153	73	15	4	364		16.1		13	64	61	54	21	51	51	49
TOT PCT	3.8	28.8	42.0	20.1	4.1	1.1		100.0			100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0

TABLE 3A

WIND DIR	WIND SPEED (KNOTS)					TOTAL OBS	PCT FREQ	MEAN SPD	HOUR (GMT)				
	0-6	7-16	17-27	28-40	41+				00	06	12	18	21
N	2.6	6.7	5.1	.5	.0		15.0	14.0	14.3	19.6	12.5	12.0	
NE	2.3	4.8	1.9	.3	.0		9.3	11.6	11.7	9.6	11.1	6.0	
E	2.5	1.5	1.1	.7	.0		5.8	12.5	5.2	5.2	9.0	4.5	
SE	1.2	2.7	1.8	.1	.0		5.8	12.4	7.5	6.3	3.8	5.5	
S	1.2	5.5	4.7	1.9	.0		13.4	17.3	11.4	18.0	15.6	8.0	
SW	.9	6.5	5.4	3.2	.0		16.1	18.3	10.4	16.5	14.2	21.3	
W	.7	8.1	9.1	1.0	1.3		20.2	19.4	20.5	16.7	19.1	24.8	
NW	2.3	4.7	4.7	1.8	.3		13.9	16.3	17.9	7.2	14.6	18.0	
VAR	.0	.0	.0	.0	.0		.0	.0	.0	.0	.0	.0	
CALM	.5						.5	.0	1.3	.9	.0	.0	
TOT OBS	52	148	123	35	6	364		16.1	77	115	72	100	
TOT PCT	14.3	40.7	33.8	9.6	1.6		100.0		100.0	100.0	100.0	100.0	

PERIOD: (PRIMARY) 1892-1969  
(OVER-ALL) 1865-1969

NOVEMBER

AREA 0010 TASMANIA EAST  
42.55 148.6E

TABLE 4

PERCENTAGE FREQUENCY OF WIND SPEED BY HOUR (GMT)

HOUR	CALM	1-3	4-10	WIND SPEED (KNOTS)				48+	MEAN	PCT FREQ	TOTAL OBS
				11-21	22-33	34-47					
00003	1.3	3.9	23.4	41.6	24.7	3.9	1.3	16.9	100.0		77
06009	.9	.0	27.0	45.2	22.6	3.5	.9	16.9	100.0		115
12015	.0	6.9	33.3	36.1	18.1	4.2	1.4	14.8	100.0		72
18021	.0	4.0	32.0	43.0	15.0	5.0	1.0	15.4	100.0		100
TOT	2	12	105	153	73	15	4	16.1			364
PCT	.5	3.3	28.8	42.0	20.1	4.1	1.1	100.0			

TABLE 5

PCT FREQ OF TOTAL CLOUD AMOUNT (EIGHTHS)  
BY WIND DIRECTION

WIND DIR	0-2	3-4	5-7	8 & OBS	TOTAL OBS	MEAN CLOUD COVER
N	5.4	.0	7.1	.0		3.7
NE	.0	1.8	3.6	3.6		6.6
E	3.6	1.8	1.8	1.8		4.4
SE	.0	.4	1.8	2.2		6.8
S	.0	6.3	3.6	8.0		6.1
SW	5.4	2.2	8.0	2.2		4.5
W	1.8	3.1	4.0	2.7		4.3
NW	5.4	2.2	7.6	2.7		4.5
VAR	.0	.0	.0	.0		.0
CALM	.0	.0	.0	.0		.0
TOT OBS	12	10	21	13	56	4.9
TOT PCT	21.4	17.9	37.5	23.2	100.0	

TABLE 6

PERCENTAGE FREQUENCY OF CEILING HEIGHTS (FT, NH >4/8)  
AND OCCURRENCE OF NH <5/8 BY WIND DIRECTION

	000	150	300	600	1000	2000	3500	5000	6500	8000+	NH <5/8	TOTAL
	149	299	599	999	1999	3499	4999	6499	7999		ANY HGT	OBS
N	.0	.0	.0	.0	1.8	1.8	.0	.0	.0	.0	.0	8.9
NE	.0	.0	.0	1.8	1.8	.0	3.6	.0	.0	.0	.0	1.8
E	.0	.0	.0	1.8	1.8	.0	.0	.0	.0	.0	.0	5.4
SE	.0	.0	.0	.0	2.2	.0	.0	.0	.0	.0	.0	2.2
S	.0	.0	.0	1.8	3.1	.0	1.8	.0	.0	.0	.0	11.2
SW	.0	.0	.0	1.8	6.3	1.8	.0	.0	.0	.0	.0	8.0
W	.0	.0	.0	.0	4.5	.0	1.3	.0	.0	.0	.0	5.8
NW	.0	.0	1.8	.0	3.6	1.8	.4	.0	.0	.0	.0	10.3
VAR	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
CALM	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
TOT OBS	0	0	0	0	0	0	0	0	0	0	0	30
TOT PCT	.0	.0	1.8	7.1	25.0	5.4	7.1	.0	.0	.0	53.6	100.0

TABLE 7

CUMULATIVE PCT FREQ OF SIMULTANEOUS OCCURRENCE  
OF CEILING HEIGHT (NH >4/8) AND VSBY (NM)

CEILING (FEET)	VSBY (NM)							
	>10	>5	>2	>1	>1/2	>1/4	>50YD	>0
>4500	.0	.0	.0	.0	.0	.0	.0	.0
>4000	.0	.0	.0	.0	.0	.0	.0	.0
>3500	7.1	7.1	7.1	7.1	7.1	7.1	7.1	7.1
>3000	12.5	12.5	12.5	12.5	12.5	12.5	12.5	12.5
>2500	37.5	37.5	37.5	37.5	37.5	37.5	37.5	37.5
>2000	41.1	42.9	44.6	44.6	44.6	44.6	44.6	44.6
>1500	42.9	44.6	46.4	46.4	46.4	46.4	46.4	46.4
>1000	42.9	44.6	46.4	46.4	46.4	46.4	46.4	46.4
>500	42.9	44.6	46.4	46.4	46.4	46.4	46.4	46.4
>0	42.9	44.6	46.4	46.4	46.4	46.4	46.4	46.4
TOTAL	24	25	26	26	26	26	26	26

TOTAL NUMBER OF OBS: 56

PCT FREQ NH <5/8 53.6

TABLE 7A

PERCENTAGE FREQ OF LOW CLOUDS (EIGHTHS)

	0	1	2	3	4	5	6	7	8 OBS	TOTAL OBS
	4.4	10.3	14.7	11.8	8.8	13.2	13.2	10.3	13.2	68

PERIOD: (PRIMARY) 1892-1969  
(OVER-ALL) 1865-1969

NOVEMBER

AREA 0010 TASMANIA EAST  
42.55 148.6E

TABLE 8

PERCENT FREQ OF WIND DIRECTION VS OCCURRENCE OR NON-OCCURRENCE OF  
PRECIPITATION WITH VARYING VALUES OF VISIBILITY

VSBY (NM)		N	NE	E	SE	S	SW	W	NW	VAR	CALM	PCT	TOTAL OBS		
<1/2	PCP	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0			
	NO PCP	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0			
	TOT %	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0			
1/2<1	PCP	.0	.0	.0	.0	.0	.3	.3	.0	.0	.0	.0	.6		
	NO PCP	1.2	1.2	1.5	.0	.4	.1	.0	.0	.0	.0	.0	4.4		
	TOT %	1.2	1.2	1.5	.0	.4	.4	.3	.0	.0	.0	.0	5.0		
1<2	PCP	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0		
	NO PCP	.0	.0	.0	.0	.1	.1	.1	.1	.0	.0	.0	.6		
	TOT %	.0	.0	.0	.0	.1	.1	.1	.1	.0	.0	.0	.6		
2<5	PCP	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0		
	NO PCP	.3	.0	.3	.0	.3	.0	.6	.0	.0	.0	.0	1.5		
	TOT %	.3	.0	.3	.0	.3	.0	.6	.0	.0	.0	.0	1.5		
5<10	PCP	.6	1.8	.7	.1	3.1	2.8	3.4	1.9	.0	.0	.0	14.3		
	NO PCP	10.2	4.4	1.8	3.1	6.0	7.6	12.4	8.3	.0	.0	.0	51.8		
	TOT %	10.8	6.1	2.5	3.2	7.1	10.4	15.7	10.2	.0	.0	.0	66.1		
10+	PCP	.0	.0	.0	.1	.4	.3	.3	.0	.0	.0	.0	1.2		
	NO PCP	2.8	2.0	1.9	2.4	5.3	4.8	3.0	3.5	.0	.0	.0	25.7		
	TOT %	2.8	2.0	1.9	2.6	5.7	5.1	3.3	3.5	.0	.0	.0	26.9		
TOT OBS													342		
TOT PCT													100.0		
15.1 9.4 6.1 5.8 13.7 16.1 20.0 13.9													.0	.0	100.0

TABLE 9

PERCENT FREQ OF WIND DIRECTION VS WIND SPEED  
WITH VARYING VALUES OF VISIBILITY

VSBY (NM)	SPD KTS	N	NE	E	SE	S	SW	W	NW	VAR	CALM	PCT	TOTAL OBS
<1/2	0-3	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
	4-10	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
	11-21	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
	22+	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
	TOT %	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
1/2<1	0-3	.1	.1	.0	.0	.0	.0	.0	.0	.0	.0	.3	
	4-10	.1	.4	.0	.0	.1	.0	.0	.0	.0	.0	.9	
	11-21	.6	.6	.9	.0	.1	.1	.0	.0	.0	.0	2.9	
	22+	.3	.0	.6	.0	.0	.3	.3	.0	.0	.0	1.5	
	TOT %	1.2	1.2	1.5	.0	.4	.4	.3	.0	.0	.0	.0	4.9
1<2	0-3	.0	.0	.0	.0	.0	.0	.1	.1	.0	.0	.3	
	4-10	.0	.0	.0	.0	.1	.1	.0	.0	.0	.0	.3	
	11-21	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
	22+	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
	TOT %	.0	.0	.0	.0	.1	.1	.1	.1	.0	.0	.0	.6
2<5	0-3	.0	.0	.3	.0	.0	.0	.0	.0	.0	.0	.3	
	4-10	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
	11-21	.6	.0	.0	.0	.3	.0	.6	.0	.0	.0	1.5	
	22+	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
	TOT %	.6	.0	.3	.0	.3	.0	.6	.0	.0	.0	.0	1.7
5<10	0-3	.0	.9	.3	.0	.0	.0	.0	.3	.0	.0	1.5	
	4-10	4.8	2.8	1.2	1.2	1.4	2.7	2.0	3.8	.0	.0	19.8	
	11-21	3.5	1.5	.3	1.7	3.2	4.7	8.9	4.5	.0	.0	28.2	
	22+	2.5	1.0	.7	.6	2.5	3.0	4.7	1.6	.0	.0	16.6	
	TOT %	10.8	6.1	2.5	3.5	7.0	10.3	15.6	10.2	.0	.0	.0	66.0
10+	0-3	.0	.0	.0	.4	.2	.0	.0	.3	.0	.0	.9	
	4-10	.9	.9	1.9	1.2	1.2	1.0	1.1	.9	.0	.0	9.0	
	11-21	1.7	1.0	.0	1.0	3.1	2.1	1.4	.4	.0	.0	10.8	
	22+	.1	.1	.0	.0	1.2	2.0	.8	1.8	.0	.0	6.1	
	TOT %	2.8	2.0	1.9	2.5	5.7	5.1	3.3	3.5	.0	.0	.0	26.7
TOT OBS													344
TOT PCT													100.0
		15.3	9.3	6.1	6.0	13.6	16.0	19.9	13.8	.0	.0	100.0	

## NOVEMBER

PERIOD: (PRIMARY) 1892-1969  
(OVER-ALL) 1865-1969

AREA 0010 TASMANIA EAST  
42.55 146.6E

TABLE 10

PERCENT FREQUENCY OF CEILING HEIGHTS (FEET, NH >4/8) AND  
OCCURRENCE OF NH <5/8 BY HOUR

HOURL (GMT)	000 149	150 299	300 599	600 999	1000 1999	2000 3499	3500 4999	5000 6499	6500 7999	8000+	TOTAL DBS	NH <5/8 ANY HGT	TOTAL DBS
00003	.0	.0	.0	6.7	20.0	.0	6.7	.0	.0	.0	33.3	66.7	15
06009	.0	.0	.0	.0	26.3	5.3	10.5	.0	.0	.0	42.1	57.9	19
12015	.0	.0	.0	17.6	17.6	5.9	5.9	.0	.0	.0	47.1	52.9	17
18021	.0	.0	11.1	.0	33.3	11.1	.0	.0	.0	.0	55.6	44.4	9
TOT	0	0	1	4	14	3	4	0	0	0	26	34	60
PCT	.0	.0	1.7	6.7	23.3	5.0	6.7	.0	.0	.0	43.3	56.7	100.0

TABLE 11

PERCENT FREQUENCY VSBY (NM) BY HOUR

HOURL (GMT)	<1/2	1/2<1	1<2	2<5	5<10	10+	TOTAL DBS
00003	.0	8.1	.0	3.2	58.1	30.6	62
06009	.0	5.2	.0	2.6	69.6	22.6	115
12015	.0	2.8	1.4	1.4	57.7	36.6	71
18021	.0	4.0	1.0	.0	74.3	20.8	101
TOT	0	17	2	6	232	92	349
PCT	.0	4.9	.6	1.7	66.5	26.4	100.0

TABLE 12

CUMULATIVE PCT FREQ OF RANGES OF VSBY (NM) AND/OR  
CEILING HGT (FEET, NH >4/8) BY HOUR

HOURL (GMT)	<150 <50YD	<600 <1	<1000 <5	1000+ NH <5/8 AND 5+	TOTAL DBS
00003	.0	.0	7.1	28.6	64.3
06009	.0	.0	.0	50.0	50.0
12015	.0	.0	17.6	29.4	52.9
18021	.0	11.1	11.1	44.4	44.4
TOT	0	1	5	21	30
PCT	.0	1.8	8.9	37.5	53.6

TABLE 13

PERCENT FREQUENCY OF RELATIVE HUMIDITY BY TEMP

TEMP F	0-29	30-39	40-49	50-59	60-69	70-79	80-89	90-100	TOTAL DBS	PCT FREQ
70/74	.0	.0	.0	1.4	.0	.0	.0	.0	1	1.4
65/69	.0	.0	.0	.0	.0	.0	1.4	1.4	2	2.8
60/64	.0	.0	.0	.0	1.4	9.9	2.8	.0	10	14.1
55/59	.0	.0	.0	.0	8.5	22.5	11.3	2.8	32	45.1
50/54	.0	.0	.0	1.4	11.3	12.7	4.2	4.2	24	33.8
45/49	.0	.0	.0	.0	.0	1.4	1.4	.0	2	2.8
TOTAL	0	0	0	2	18	33	15	6	71	100.0
PCT	.0	.0	.0	2.8	21.1	46.5	21.1	8.5		

TABLE 14

PERCENT FREQUENCY OF WIND DIRECTION BY TEMP

	N	NE	E	SE	S	SW	W	NW	VAR	CALM
70/74	.0	.0	.0	.0	.0	.0	.0	1.4	.0	.0
65/69	1.4	.0	1.4	.0	.0	.0	.0	.0	.0	.0
60/64	6.3	3.5	.0	.0	4.2	.0	.0	.0	.0	.0
55/59	2.8	4.9	2.8	5.6	6.7	3.2	3.2	15.8	.0	.0
50/54	1.4	.0	2.8	2.5	8.5	10.9	6.3	1.4	.0	.0
45/49	.0	.0	.0	.0	1.4	1.4	.0	.0	.0	.0
TOTAL	12.0	8.5	7.0	8.1	20.8	15.5	9.5	18.7	.0	.0

TABLE 15

MEANS, EXTREMES AND PERCENTILES OF TEMP (DEG F) BY HOUR

HOURL (GMT)	MAX	99%	95%	50%	5%	1%	MIN	MEAN	TOTAL DBS
00003	70	69	65	56	50	48	48	56.2	76
06009	68	66	62	55	51	50	50	55.8	112
12015	65	64	59	54	49	46	46	53.9	72
18021	72	64	59	53	49	46	46	53.6	100
TOT	72	66	61	55	50	48	46	54.9	360

TABLE 16

PERCENT FREQUENCY OF RELATIVE HUMIDITY BY HOUR

HOURL (GMT)	0-29	30-39	40-49	50-59	60-69	70-79	80-89	90-100	MEAN	TOTAL DBS
00003	.0	5.9	5.9	52.9	29.4	5.9			76	17
06009	.0	.0	30.0	55.0	15.0	.0			73	20
12015	.0	.0	19.0	47.6	23.8	9.5			78	21
18021	.0	7.7	30.8	23.1	15.4	23.1			78	13
TOT	0	2	15	33	15	6			76	71

## NOVEMBER

PERIOD: (PRIMARY) 1897-1969  
(OVER-ALL) 1865-1969

TABLE 17

AREA 0010 TASMANIA EAST  
42.5S 148.6E

PCT FREQ OF AIR TEMPERATURE (DEG F) AND THE OCCURRENCE OF FOG (WITHOUT PRECIPITATION)  
VS AIR-SEA TEMPERATURE DIFFERENCE (DEG F)

AIR-SEA TMP DIF	45 48	49 52	53 56	57 60	61 64	65 68	69 72	TOT	N FOG	WD FOG
11/13	.0	.0	.0	.0	.0	.3	.3	2	.0	.6
7/8	.0	.0	.0	1.0	.0	.0	.0	3	.0	1.0
6	.0	.0	.0	.3	.3	.3	.0	3	.0	1.0
5	.0	.0	.3	1.6	1.0	.3	.0	10	1.0	2.2
4	.0	.0	.0	1.9	1.3	.0	.0	10	.6	2.5
3	.0	.0	2.2	2.5	1.0	.0	.0	18	.3	5.4
2	.0	.3	4.8	4.1	1.3	.0	.0	23	1.0	9.6
1	.0	.3	9.6	2.9	.3	.3	.0	42	.6	12.7
0	.0	1.9	9.6	2.2	.3	.3	.0	45	1.6	12.7
-1	.0	4.1	8.3	.6	.3	.0	.0	42	1.3	12.1
-2	.0	5.1	5.1	.0	.0	.0	.0	35	.0	11.1
-3	.0	5.4	1.9	1.0	.0	.0	.0	26	.3	8.0
-4	.6	2.9	1.9	.6	.0	.0	.0	19	.0	6.1
-5	.6	1.9	1.3	.0	.0	.0	.0	12	.0	3.8
-6	.6	1.3	.6	.0	.0	.0	.0	8	.3	2.2
-7/-8	.3	1.0	.3	.0	.0	.0	.0	5	.0	1.6
-9/-10	.3	.0	.0	.0	.0	.0	.0	1	.0	.3
TOTAL	8	79	144	59	18	5	1	314	22	292
PCT	2.6	25.1	45.9	18.8	5.7	1.6	.3	100.0	7.0	93.0

PERIOD: (OVER-ALL) 1963-1969

TABLE 18

PCT FREQ OF WIND SPEED (KTS) AND DIRECTION VERSUS SEA HEIGHTS (FT)

HGT	1-3	4-10	11-21	22-33	34-47	48+	PCT	1-3	4-10	11-21	22-33	34-47	48+	PCT
<1	.0	.0	.0	.0	.0	.0	.0	.0	1.9	.0	.0	.0	.0	1.9
1-2	.0	1.9	3.8	.0	.0	.0	5.8	.0	1.9	1.9	.0	.0	.0	3.8
3-4	.0	.0	.0	.0	.0	.0	.0	.0	.0	1.9	.0	.0	.0	1.9
5-6	.0	.0	5.8	.0	.0	.0	5.8	.0	.0	1.9	.0	.0	.0	1.9
7	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
8-9	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
10-11	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
12	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
13-16	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
17-19	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
20-22	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
23-25	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
26-32	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
33-40	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
41-48	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
49-60	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
61-70	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
71-86	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
87+	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
TOT PCT	.0	1.9	9.6	.0	.0	.0	11.5	.0	3.8	5.8	.0	.0	.0	9.6

HGT	1-3	4-10	11-21	22-33	34-47	48+	PCT	1-3	4-10	11-21	22-33	34-47	48+	PCT
<1	1.9	.0	.0	.0	.0	.0	1.9	.0	.0	.0	.0	.0	.0	.0
1-2	.0	5.8	.0	.0	.0	.0	5.8	.0	.0	.0	.0	.0	.0	.0
3-4	.0	.0	.0	.0	.0	.0	.0	.0	1.9	1.9	.0	.0	.0	3.8
5-6	.0	.0	.0	.0	.0	.0	.0	.0	.0	.5	.0	.0	.0	.5
7	.0	.0	.0	.0	.0	.0	.0	.0	.0	.5	.0	.0	.0	.5
8-9	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
10-11	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
12	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
13-16	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
17-19	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
20-22	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
23-25	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
26-32	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
33-40	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
41-48	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
49-60	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
61-70	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
71-86	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
87+	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
TOT PCT	1.9	5.8	.0	.0	.0	.0	7.7	.0	1.9	2.9	.0	.0	.0	4.8



PERIOD: (OVER-ALL) 1963-1969

NOVEMBER

AREA 0010 TASMANIA EAST  
42.55 148.6E

TABLE 18 (CONT)

PCT FREQ OF WIND SPEED (KTS) AND DIRECTION VERSUS SEA HEIGHTS (FT)

HGT	S							PCT	SW							PCT
	1-3	4-10	11-21	22-33	34-47	48+			1-3	4-10	11-21	22-33	34-47	48+		
<1	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
1-2	.0	1.9	3.8	.0	.0	.0	5.8	.0	.0	.0	.0	.0	.0	.0	.0	.0
3-4	.0	1.4	1.9	.0	.0	.0	3.4	.0	.5	6.3	.0	.0	.0	.0	6.7	.0
5-6	.0	.0	1.4	1.9	.0	.0	3.4	.0	.0	3.8	3.8	.0	.0	.0	7.7	.0
7	.0	.0	1.4	.0	1.9	.0	3.4	.0	.0	.0	.0	2.4	.0	.0	2.4	.0
8-9	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
10-11	.0	.0	.0	1.4	.0	.0	1.4	.0	.0	.0	.5	.0	.0	.0	.5	.0
12	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
13-16	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
17-19	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
20-22	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
23-25	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
26-32	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
33-40	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
41-48	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
49-60	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
61-70	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
71-86	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
87+	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
TOT PCT	.0	3.4	8.7	3.4	1.9	.0	17.3	.0	.5	10.1	4.3	2.4	.0	.0	17.3	.0

HGT	W							PCT	NW							PCT	TOTAL PCT
	1-3	4-10	11-21	22-33	34-47	48+			1-3	4-10	11-21	22-33	34-47	48+			
<1	.0	.0	.0	.0	.0	.0	.0	.0	1.9	.0	.0	.0	.0	.0	.0	1.9	.0
1-2	.0	1.4	.0	.0	.0	.0	1.4	.0	.0	2.4	.0	.0	.0	.0	.0	2.4	.0
3-4	.0	.0	1.4	.0	.0	.0	1.4	.0	.0	.0	1.9	.0	.0	.0	.0	1.9	.0
5-6	.0	.0	3.8	.0	.0	.0	3.8	.0	.0	.0	.0	1.9	.0	.0	.0	1.9	.0
7	.0	.0	1.9	.0	1.4	.0	3.4	.0	.0	.0	.0	1.9	.0	.0	.0	1.9	.0
8-9	.0	.0	.0	1.9	.0	.0	1.9	.0	.0	.0	.0	3.8	1.9	.0	.0	5.8	.0
10-11	.0	.0	.0	.0	1.4	.0	1.4	.0	.0	.0	.0	.0	2.4	.0	.0	2.4	.0
12	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
13-16	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
17-19	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
20-22	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
23-25	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
26-32	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
33-40	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
41-48	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
49-60	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
61-70	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
71-86	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
87+	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
TOT PCT	.0	1.4	7.2	1.9	2.9	.0	13.5	.0	1.9	2.4	1.9	7.7	4.3	.0	18.3	100.0	.0

WIND SPEED (KTS) VS SEA HEIGHT (FT)

HGT	0-3	4-10	11-21	22-33	34-47	48+	PCT	TOT DBS
<1	3.8	1.9	.0	.0	.0	.0	5.8	.0
1-2	.0	15.4	9.6	.0	.0	.0	25.0	.0
3-4	.0	3.8	15.4	.0	.0	.0	19.2	.0
5-6	.0	.0	17.3	7.7	.0	.0	25.0	.0
7	.0	.0	3.8	1.9	5.8	.0	11.5	.0
8-9	.0	.0	.0	5.8	1.9	.0	7.7	.0
10-11	.0	.0	.0	1.9	3.8	.0	5.8	.0
12	.0	.0	.0	.0	.0	.0	.0	.0
13-16	.0	.0	.0	.0	.0	.0	.0	.0
17-19	.0	.0	.0	.0	.0	.0	.0	.0
20-22	.0	.0	.0	.0	.0	.0	.0	.0
23-25	.0	.0	.0	.0	.0	.0	.0	.0
26-32	.0	.0	.0	.0	.0	.0	.0	.0
33-40	.0	.0	.0	.0	.0	.0	.0	.0
41-48	.0	.0	.0	.0	.0	.0	.0	.0
49-60	.0	.0	.0	.0	.0	.0	.0	.0
61-70	.0	.0	.0	.0	.0	.0	.0	.0
71-86	.0	.0	.0	.0	.0	.0	.0	.0
87+	.0	.0	.0	.0	.0	.0	.0	.0
TOT PCT	3.8	21.2	46.2	17.3	11.5	.0	100.0	52

PERIOD: (OVER-ALL) 1960-1969

TABLE 19

PERCENT FREQUENCY OF WAVE HEIGHT (FT) VS WAVE PERIOD (SECONDS)

PERIOD (SEC)	<1	1-2	3-4	5-6	7	8-9	10-11	12	13-16	17-19	20-22	23-25	26-32	33-40	41-48	49-60	61-70	71-86	87+	TOTAL	MEAN HGT
<6	1.8	10.9	1.8	9.1	.0	1.8	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	14	3
6-7	.0	.0	7.3	12.7	5.5	3.6	5.5	1.8	9.1	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	25	8
8-9	.0	.0	.0	1.8	7.3	3.6	.0	5.5	3.6	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	12	9
10-11	.0	.0	.0	.0	.0	1.8	.0	.0	1.8	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	2	12
12-13	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
>13	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
INDET	.0	.0	.0	1.8	.0	.0	1.8	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	2	8
TOTAL	1	6	5	14	7	6	4	4	8	0	0	0	0	0	0	0	0	0	0	55	7
PCT	1.8	10.9	9.1	25.5	12.7	10.9	7.3	7.3	14.5	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	100.0	.0

## DECEMBER

PERIOD: (PRIMARY) 1896-1959  
(OVER-ALL) 1857-1949AREA 0010 TASMANIA EAST  
42.45 148.1E

TABLE 1

## PERCENT FREQUENCY OF WEATHER OCCURRENCE BY WIND DIRECTION

WIND DIR	PRECIPITATION TYPE							OTHER WEATHER PHENOMENA							NO SIG WEA
	RAIN	RAIN SHWR	DRZL	FRZG PCPN	SNOW	OTHER FRZN PCPN	HAIL	PCPN AT DB TIME	PCPN PAST HOUR	THOR LTNG	FOG WD PCPN	FOG WD PCPN PAST HR	SMOKE HAZE	SPRAY BLWG SNOW	
N	.0	5.2	3.0	.0	.0	.0	.0	8.2	1.1	.0	.0	.0	.0	.0	90.7
NE	6.5	6.5	2.2	.0	.0	.0	.0	15.2	.5	.0	6.5	.0	2.2	.0	75.5
E	2.8	.0	.0	.0	.0	.0	.0	2.8	.0	.0	4.3	.0	.0	.0	92.9
SE	3.3	1.7	7.2	.0	.0	.0	.0	12.3	.0	.0	8.9	.0	.0	.0	78.8
S	13.8	6.9	4.4	.0	.0	.0	.0	23.8	.0	.0	4.4	.0	1.3	.0	70.6
SW	3.1	19.7	5.4	.0	.0	.0	.0	26.5	.0	1.8	.0	.0	.0	.0	71.7
W	4.5	8.0	2.0	.0	.0	.0	.0	14.5	2.0	.0	2.0	.0	.0	.0	81.5
NW	1.2	6.4	.0	.0	.0	.0	.0	7.5	1.2	.0	2.3	.0	.0	.0	89.0
VAR	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
CALM	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	100.0
TOT PCT	4.5	6.7	3.3	.0	.0	.0	.0	14.1	.6	.2	3.7	.0	.4	.0	81.0
TOT OBS:	511														

TABLE 2

## PERCENT FREQUENCY OF WEATHER OCCURRENCE BY HOUR

HOUR (GMT)	PRECIPITATION TYPE							OTHER WEATHER PHENOMENA							NO SIG WEA
	RAIN	RAIN SHWR	DRZL	FRZG PCPN	SNOW	OTHER FRZN PCPN	HAIL	PCPN AT DB TIME	PCPN PAST HOUR	THOR LTNG	FOG WD PCPN	FOG WD PCPN PAST HR	SMOKE HAZE	SPRAY BLWG SNOW	
0000	3.2	8.5	3.2	.0	.0	.0	.0	14.9	.0	1.1	3.2	.0	.0	.0	81.9
0600	4.0	9.2	2.3	.0	.0	.0	.0	15.0	1.7	1.7	4.6	.0	.6	.0	76.3
1200	4.3	3.4	4.3	.0	.0	.0	.0	11.2	.0	1.7	4.3	.0	.9	.0	81.9
1800	4.9	4.9	3.3	.0	.0	.0	.0	13.1	.0	1.1	4.4	.0	.0	.0	81.4
TOT PCT	4.2	6.5	3.2	.0	.0	.0	.0	13.6	.5	1.4	4.2	.0	.4	.0	80.0
TOT OBS:	566														

TABLE 3

## PERCENTAGE FREQUENCY OF WIND DIRECTION BY SPEED AND BY HOUR

WIND DIR	WIND SPEED (KNOTS)							48+	TOTAL OBS	PCT FREQ	MEAN SPD	HOUR (GMT)						
	0-3	4-10	11-21	22-33	34-47	00	03					06	09	12	15	18	21	
N	2.6	4.0	3.8	1.9	.3	.0	13.5	12.2	21.7	10.1	8.6	10.9	12.5	16.9	17.2	17.4		
NE	1.1	3.1	3.0	.9	.3	.0	8.5	12.4	4.3	6.6	10.6	11.8	10.6	9.1	7.5	5.9		
E	1.5	3.3	1.5	.3	.0	.0	6.5	8.1	.0	5.1	7.3	7.8	3.8	7.8	6.2	7.9		
SE	2.0	9.2	4.4	1.4	.0	.0	17.0	10.2	27.2	13.6	23.2	20.1	11.5	14.9	14.0	14.5		
S	1.4	6.8	5.0	2.2	.2	.0	15.5	12.6	14.1	12.1	16.4	20.1	29.8	15.6	14.8	9.9		
SW	.5	3.3	4.0	2.6	.3	.0	10.6	15.8	15.2	14.6	10.1	9.2	8.7	8.4	10.2	9.9		
W	1.5	2.4	4.3	2.2	.3	.0	10.5	14.2	4.3	18.2	12.6	10.3	13.5	6.5	7.4	6.6		
NW	4.1	6.2	6.2	1.0	.0	.0	17.5	9.9	13.0	19.7	11.1	9.8	5.8	20.8	22.6	28.0		
VAR	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0		
CALM	.2						.2	.0	.0	.0	.0	.0	3.8	.0	.0	.0		
TOT OBS	86	227	187	72	8	0	580		23	99	99	87	25	77	93	76		
TOT PCT	14.8	39.1	32.2	12.4	1.4	.0		100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0		

TABLE 3A

WIND DIR	0-6	WIND SPEED (KNOTS)				41+	TOTAL OBS	PCT FREQ	MEAN SPD	HOUR (GMT)				
		7-16	17-27	28-40	00 03					06 09	12 15	18 21		
N	4.0	5.6	2.8	1.0	.2		13.5	12.2	12.3	9.7	15.8	17.3		
NE	2.4	4.1	1.4	.4	.2		8.5	12.4	6.1	11.2	9.5	6.8		
E	3.1	2.9	.5	.0	.0		6.5	8.1	4.1	7.5	6.8	7.0		
SE	5.6	8.6	2.0	.8	.0		17.0	10.2	16.2	21.8	14.1	14.2		
S	3.4	7.3	3.7	1.0	.0		15.5	12.6	12.5	18.1	19.2	12.6		
SW	1.6	3.7	4.5	.8	.1		10.6	15.8	14.8	9.7	8.5	10.1		
W	2.2	4.1	3.8	.5	.1		10.5	14.2	15.6	11.6	8.3	7.1		
NW	6.3	7.8	3.2	.2	.0		17.5	9.9	18.4	10.5	17.0	25.0		
VAR	.0	.0	.0	.0	.0		.0	.0	.0	.0	.0	.0		
CALM	.2						.2	.0	.0	.0	1.0	.0		
TOT OBS	167	256	127	27	3	580		11.8	122	186	103	169		
TOT PCT	28.8	44.1	21.9	4.7	.5		100.0		100.0	100.0	100.0	100.0		

PERIOD: (PRIMARY) 1896-1969  
(OVER-ALL) 1857-1969

# DECEMBER

AREA 0010 TASMANIA EAST  
42.45 148.1E

TABLE 4

PERCENTAGE FREQUENCY OF WIND SPEED BY HOUR (GMT)

HOUR	CALM	WIND SPEED (KNOTS)						MEAN	PCT FREQ	TOTAL OBS
		1-3	4-10	11-21	22-33	34-47	48+			
0000	.0	11.5	39.3	35.2	11.5	2.5	.0	12.8	100.0	122
0600	.0	11.3	40.9	33.9	12.4	1.6	.0	12.1	100.0	186
1200	1.0	9.7	44.7	31.1	12.6	1.0	.0	11.7	100.0	103
1800	.0	23.7	33.7	29.0	13.0	.8	.0	11.0	100.0	169
TOT	1	85	227	187	72	8	0	11.8		580
PCT	.2	14.7	39.1	32.2	12.4	1.4	.0	100.0		

TABLE 5

PCT FREQ OF TOTAL CLOUD AMOUNT (EIGHTHS)  
BY WIND DIRECTION

WIND DIR	0-2	3-4	5-7	8 & OBSCD	TOTAL CLOUD OBS	MEAN CLOUD COVER
N	6.0	.6	9.2	.9		4.1
NE	1.2	.6	1.5	1.5		5.2
E	.0	1.2	4.2	.0		5.7
SE	2.4	1.5	5.1	6.3		6.1
S	3.6	5.1	6.0	11.0		5.8
SW	1.5	3.0	2.7	3.3		5.3
W	3.9	1.2	2.4	2.1		3.8
NW	3.0	1.2	6.0	1.2		4.6
VAR	.0	.0	.0	.0		.0
CALM	.0	.0	1.2	.0		7.0
TOT OBS	18	12	32	22	84	5.1
TOT PCT	21.4	14.3	38.1	26.2	100.0	

TABLE 6

PERCENTAGE FREQUENCY OF CEILING HEIGHTS (FT, NH >4/8)  
AND OCCURRENCE OF NH <5/8 BY WIND DIRECTION

	000	150	300	600	1000	2000	3500	5000	6500	8000+	NH <5/8	TOTAL
	149	299	599	999	1999	3499	4999	6499	7999		ANY HGT	OBS
N	.0	.0	.0	.9	2.4	2.1	1.2	.0	.0	.0	.9	9.2
NE	.0	.0	.0	.3	1.2	1.2	.0	.0	.0	.0	.0	2.1
E	.0	.0	.0	.0	1.8	1.2	.0	1.2	.0	.0	.0	1.2
SE	1.2	.0	.0	1.5	5.4	1.2	.6	.0	.0	.0	.0	5.4
S	.0	.0	1.2	3.3	3.9	4.8	.6	.0	.0	.0	.0	11.9
SW	.0	.0	.0	.0	3.6	.0	2.4	.0	.0	.0	.0	4.5
W	.0	.0	.0	.0	2.1	.0	.0	.0	.0	1.2	.6	6.3
NW	.0	.0	.0	1.2	1.2	1.5	1.2	.0	.0	.3	.6	6.0
VAR	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
CALM	.0	.0	.0	.0	1.2	.0	.0	.0	.0	.0	.0	.0
TOT OBS	1	0	1	6	19	10	5	1	0	2	39	84
TOT PCT	1.2	.0	1.2	7.1	22.6	11.9	6.0	1.2	.0	2.4	46.4	100.0

TABLE 7

CUMULATIVE PCT FREQ OF SIMULTANEOUS OCCURRENCE  
OF CEILING HEIGHT (NH >4/8) AND VSBY (NM)

CEILING (FEET)	VSBY (NM)				VSBY (NM)			
	>10	>5	>2	>1	>1/2	>1/4	>50YD	>0
>6500	2.4	2.4	2.4	2.4	2.4	2.4	2.4	2.4
>5000	2.4	2.4	3.5	3.5	3.5	3.5	3.5	3.5
>3500	5.9	7.1	9.4	9.4	9.4	9.4	9.4	9.4
>2000	17.6	18.8	21.2	21.2	21.2	21.2	21.2	21.2
>1000	30.6	35.3	43.5	43.5	43.5	43.5	43.5	43.5
>600	36.5	42.4	51.8	51.8	51.8	51.8	51.8	51.8
>300	37.6	43.5	52.9	52.9	52.9	52.9	52.9	52.9
>150	37.6	43.5	52.9	52.9	52.9	52.9	52.9	52.9
>0	37.6	43.5	54.1	54.1	54.1	54.1	54.1	54.1
TOTAL	32	37	46	46	46	46	46	46

TOTAL NUMBER OF OBS: 85

PCT FREQ NH <5/8: 45.9

TABLE 7A

PERCENTAGE FREQ OF LOW CLOUDS (EIGHTHS)

	0	1	2	3	4	5	6	7	8 OBSCD	TOTAL OBS
	5.1	17.2	11.1	4.0	7.1	7.1	11.1	15.2	21.2	99

PERIOD: (PRIMARY) 1896-1969  
(OVER-ALL) 1857-1969

DECEMBER

AREA 0010 TASMANIA EAST  
42.45 148.1E

TABLE 8

PERCENT FREQ OF WIND DIRECTION VS OCCURRENCE OR NON-OCCURRENCE OF  
PRECIPITATION WITH VARYING VALUES OF VISIBILITY

VSBY (NM)		N	NE	E	SE	S	SW	W	NW	VAR	CALM	PCT	TOTAL OBS
<1/2	PCP	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
	NO PCP	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
	TOT %	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
1/2<1	PCP	.4	.2	.0	.0	.0	.1	.1	.0	.0	.0	.8	
	NO PCP	.0	.4	.0	1.0	.6	.0	.2	.2	.0	.0	2.3	
	TOT %	.4	.6	.0	1.0	.6	.1	.3	.2	.0	.0	3.1	
1<2	PCP	.0	.2	.0	.4	.6	.0	.0	.0	.0	.0	1.2	
	NO PCP	.0	.4	.0	.0	.0	.0	.0	.0	.0	.0	.4	
	TOT %	.0	.6	.0	.4	.6	.0	.0	.0	.0	.0	1.6	
2<5	PCP	.2	.0	.0	.6	1.0	.2	.3	.0	.0	.0	2.3	
	NO PCP	.5	.1	.2	.5	.1	.2	.0	.2	.0	.0	1.8	
	TOT %	.7	.1	.2	1.1	1.1	.4	.3	.2	.0	.0	4.1	
5<10	PCP	.4	.9	.2	.8	2.0	2.5	1.0	1.3	.0	.0	9.0	
	NO PCP	7.2	5.4	5.4	10.8	6.2	5.5	6.0	12.5	.0	.0	59.1	
	TOT %	7.6	6.3	5.6	11.6	8.2	8.1	6.9	13.8	.0	.0	68.1	
10+	PCP	.1	.1	.0	.4	.2	.0	.0	.0	.0	.0	.8	
	NO PCP	4.3	1.4	1.1	3.1	5.0	2.3	2.2	2.7	.0	.2	22.3	
	TOT %	4.4	1.5	1.1	3.5	5.2	2.3	2.2	2.7	.0	.2	23.1	
TOT OBS													
TOT PCT													
		13.1	9.0	6.9	17.6	15.7	10.9	9.8	16.9	.0	.2	100.0	511

TABLE 9

PERCENT FREQ OF WIND DIRECTION VS WIND SPEED  
WITH VARYING VALUES OF VISIBILITY

VSBY (NM)	SPD KTS	N	NE	E	SE	S	SW	W	NW	VAR	CALM	PCT	TOTAL OBS
<1/2	0-3	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
	4-10	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
	11-21	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
	22+	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
	TOT %	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
1/2<1	0-3	.0	.0	.2	.2	.2	.0	.2	.2	.0	.0	.9	
	4-10	.0	.0	.0	.7	.4	.0	.0	.4	.0	.0	1.5	
	11-21	.3	.2	.0	.2	.0	.1	.2	.4	.0	.0	1.3	
	22+	.2	.4	.0	.0	.0	.0	.0	.0	.0	.0	.6	
	TOT %	.5	.6	.2	1.1	.6	.1	.4	.9	.0	.0	4.3	
1<2	0-3	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
	4-10	.0	.4	.0	.0	.0	.0	.0	.0	.0	.0	.4	
	11-21	.0	.2	.0	.3	.5	.0	.0	.0	.0	.0	.9	
	22+	.0	.0	.0	.1	.1	.0	.0	.0	.0	.0	.2	
	TOT %	.0	.6	.0	.4	.6	.0	.0	.0	.0	.0	1.5	
2<5	0-3	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
	4-10	.4	.0	.0	.3	.3	.0	.0	.0	.0	.0	.9	
	11-21	.1	.1	.2	.4	.4	.4	.0	.0	.0	.0	1.5	
	22+	.3	.3	.0	.4	.6	.4	.3	.2	.0	.0	2.0	
	TOT %	.7	.4	.2	1.0	1.2	.4	.3	.2	.0	.0	4.5	
5<10	0-3	2.7	1.0	1.4	1.9	1.1	.6	1.1	4.1	.0	.0	13.9	
	4-10	2.8	2.5	3.0	8.4	3.7	2.2	1.9	5.1	.0	.0	27.6	
	11-21	1.7	1.9	.8	2.4	2.2	2.8	2.8	4.3	.0	.0	18.9	
	22+	1.2	.5	.3	.4	.9	2.3	1.3	.6	.0	.0	7.4	
	TOT %	8.3	5.9	5.5	11.2	7.9	7.9	7.1	14.0	.0	.0	67.9	
10+	0-3	.1	.0	.0	.0	.2	.0	.2	.1	.0	.2	.7	
	4-10	1.9	.5	.5	1.9	2.6	1.0	.3	.6	.0	.0	9.3	
	11-21	1.5	.6	.5	1.3	1.8	.6	.9	1.7	.0	.0	8.9	
	22+	.7	.3	.0	.1	.4	.6	.7	.2	.0	.0	3.0	
	TOT %	4.2	1.4	1.0	3.3	5.0	2.2	2.4	2.6	.0	.2	21.9	
TOT OBS													
TOT PCT													
		13.7	8.8	6.9	17.0	15.2	10.6	9.8	17.7	.0	.2	100.0	539

DECEMBER

PERIOD: (PRIMARY) 1896-1969  
(OVER-ALL) 1857-1969

AREA 0010 TASMANIA EAST  
42.45 148.1E

TABLE 10

PERCENT FREQUENCY OF CEILING HEIGHTS (FEET, NH > 4/8) AND  
OCCURRENCE OF NH < 5/8 BY HOUR

HR	000	150	300	600	1000	2000	3500	5000	6500	8000+	TOTAL	NH < 5/8 ANY HGT	TOTAL OBS
(GMT)	149	299	599	999	1999	3499	4999	6499	7999				
00003	.0	.0	.0	4.3	13.0	8.7	13.0	.0	.0	4.3	43.5	56.5	23
06009	3.8	.0	3.8	7.7	26.9	7.7	3.8	.0	.0	3.8	57.7	42.3	26
12015	.0	.0	.0	13.6	13.6	4.5	.0	4.5	.0	.0	36.4	63.6	22
18021	.0	.0	.0	5.3	31.6	26.3	5.3	.0	.0	.0	68.4	31.6	19
TOT	1	0	1	7	19	10	5	1	0	2	46	44	90
PCT	1.1	.0	1.1	7.8	21.1	11.1	5.6	1.1	.0	2.2	51.1	48.9	100.0

TABLE 11

PERCENT FREQUENCY VSBY (NM) BY HOUR

HR	<1/2	1/2<1	1<2	2<5	5<10	10+	TOTAL
(GMT)							OBS
00003	.0	5.0	.0	2.0	65.3	27.7	101
06009	.0	5.7	1.6	4.2	74.0	14.6	192
12015	.0	5.1	.8	6.8	61.9	25.4	118
18021	.0	3.7	2.1	3.7	73.3	17.1	187
TOT	0	29	8	25	418	118	598
PCT	.0	4.8	1.3	4.2	69.9	19.7	100.0

TABLE 12

CUMULATIVE PCT FREQ OF RANGES OF VSBY (NM) AND/OR  
CEILING HGT (FEET, NH > 4/8) BY HOUR

HR	<150	<600	<1000	1000+	NH < 5/8	TOTAL
(GMT)	<500	<1	<5	AND 5+	AND 5+	OBS
00003	.0	.0	9.1	36.4	54.5	22
06009	4.2	8.3	25.0	37.5	37.5	24
12015	.0	.0	23.8	14.3	61.9	21
18021	.0	.0	16.7	33.6	27.8	18
TOT	1	2	16	30	99	85
PCT	1.2	2.4	18.8	35.3	45.9	100.0

TABLE 13

PERCENT FREQUENCY OF RELATIVE HUMIDITY BY TEMP

TEMP F	0-29	30-39	40-49	50-59	60-69	70-79	80-89	90-100	TOTAL	PCT
									OBS	FREQ
65/69	.0	.0	.0	.0	1.0	1.0	1.0	.0	3	2.9
60/64	.0	.0	1.0	1.0	1.0	2.9	6.8	4.9	18	17.5
55/59	.0	.0	.0	3.9	9.7	10.7	18.4	7.8	52	50.5
50/54	.0	.0	.0	1.0	10.7	8.7	3.9	3.9	29	28.2
45/49	.0	.0	.0	.0	.0	1.0	.0	.0	1	1.0
TOTAL	0	0	1	6	23	25	31	17	103	100.0
PCT	.0	.0	1.0	5.8	22.3	24.3	30.1	16.5		

TABLE 14

PERCENT FREQUENCY OF WIND DIRECTION BY TEMP

N	NE	E	SE	S	SW	W	NW	VAR	CALM
.0	.0	1.0	.0	1.0	.0	.0	1.0	.0	.0
7.3	1.5	.0	1.0	1.9	.0	1.0	4.9	.0	.0
7.8	4.4	3.2	10.4	10.9	4.9	4.1	3.9	.0	1.0
2.9	1.5	2.7	3.6	9.0	4.1	2.9	1.5	.0	.0
.0	.0	.0	.0	.0	.0	1.0	.0	.0	.0
18.0	7.3	6.8	15.0	22.8	9.0	9.0	11.2	.0	1.0

TABLE 15

MEANS, EXTREMES AND PERCENTILES OF TEMP (DEG F) BY HOUR

HR	MAX	99%	95%	50%	5%	1%	MIN	MEAN	TOTAL
(GMT)									OBS
00003	75	73	70	59	53	52	51	59.9	175
06009	75	74	72	59	52	50	47	59.9	191
12015	73	70	65	57	51	49	48	57.4	120
18021	75	70	64	57	52	50	49	57.2	194
TOT	75	74	69	58	52	50	47	58.6	630

TABLE 16

PERCENT FREQUENCY OF RELATIVE HUMIDITY BY HOUR

HR	0-29	30-59	60-69	70-79	80-89	90-100	MEAN	TOTAL
(GMT)								OBS
00003	.0	16.7	12.5	33.3	25.0	12.5	75	24
06009	.0	6.9	24.1	24.1	24.1	20.7	78	29
12015	.0	3.6	28.6	25.0	35.7	7.1	77	28
18021	.0	.0	20.8	12.5	41.7	25.0	82	24
TOT	0	7	23	25	33	17	78	105



## DECEMBER

PERIOD: (PRIMARY) 1896-1969  
(OVER-ALL) 1857-1969

AREA 0010 TASMANIA EAST  
42.45 148.1E

TABLE 17

PCT FREQ OF AIR TEMPERATURE (DEG F) AND THE OCCURRENCE OF FOG (WITHOUT PRECIPITATION)  
VS AIR-SEA TEMPERATURE DIFFERENCE (DEG F)

AIR-SEA TMP DIF	45 48	49 52	53 56	57 60	61 64	65 68	69 72	TOT	W FOG	NO FOG
11/13	.0	.0	.0	.0	.0	.0	.2	1	.0	.2
7/8	.0	.0	.0	.0	.2	.2	.6	5	.0	1.0
5	.0	.0	.0	.2	.8	.4	.6	10	.2	1.8
5	.0	.0	.0	1.2	.8	.4	.8	16	.4	2.7
4	.0	.0	.2	1.2	1.2	1.0	.4	20	.4	3.5
3	.0	.0	.8	2.3	1.9	1.0	.8	35	.0	6.8
2	.0	.2	1.9	3.3	1.4	2.1	.0	46	1.0	8.0
1	.0	.6	2.3	1.9	1.4	1.2	.0	38	.4	7.0
0	.0	1.0	4.7	5.6	4.1	.8	.0	83	.2	16.0
-1	.2	.8	6.4	6.6	3.5	.0	.0	90	1.0	16.5
-2	.0	1.0	4.1	3.9	1.8	.0	.0	55	.6	10.1
-3	.0	2.1	3.9	3.9	.4	.0	.0	53	.6	9.7
-4	.0	.2	1.4	2.5	.2	.0	.0	22	.0	4.3
-5	.2	1.0	1.9	.6	.0	.0	.0	19	.0	3.7
-6	.0	.4	.8	.2	.0	.0	.0	7	.0	1.4
-7/-8	.0	.8	1.2	.2	.0	.0	.0	11	.0	2.1
-9/-10	.0	.0	.6	.0	.0	.0	.0	3	.0	.6
TOTAL	2		155		90		17	514	24	490
PCT	.4	41	173	36	7.0	3.3		100.0	4.7	95.3

PERIOD: (OVER-ALL) 1963-1969

TABLE 18

PCT FREQ OF WIND SPEED (KTS) AND DIRECTION VERSUS SEA HEIGHTS (FT)

HGT	N						PCT	NE						PCT
	1-3	4-10	11-21	22-33	34-47	48+		1-3	4-10	11-21	22-33	34-47	48+	
<1	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
1-2	.0	2.7	2.7	.0	.0	.0	5.3	.0	.4	.0	.0	.0	.0	.4
3-4	.0	3.0	3.0	.0	.0	.0	6.1	.0	1.5	.0	.0	.0	.0	1.5
5-6	.0	.0	.0	2.3	.0	.0	2.3	.0	.0	1.5	.8	.0	.0	2.3
7	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
8-9	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
10-11	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
12	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
13-16	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
17-19	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
20-22	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
23-25	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
26-32	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
33-40	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
41-48	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
49-60	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
61-70	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
71-86	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
87+	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
TOT PCT	.0	5.7	5.7	2.3	.0	.0	13.6	.0	1.9	1.5	.8	.0	.0	4.2

HGT	E						PCT	SE						PCT
	1-3	4-10	11-21	22-33	34-47	48+		1-3	4-10	11-21	22-33	34-47	48+	
<1	.0	.0	.0	.0	.0	.0	.0	.0	1.5	.0	.0	.0	.0	1.5
1-2	.0	1.1	.0	.0	.0	.0	1.1	.0	6.4	1.5	.0	.0	.0	8.0
3-4	.0	1.5	.0	.0	.0	.0	1.5	.0	1.5	1.9	.0	.0	.0	3.4
5-6	.0	.0	.0	.0	.0	.0	.0	.0	.0	1.5	.0	.0	.0	1.5
7	.0	.0	.0	.0	.0	.0	.0	.0	.0	3.0	.4	.0	.0	3.4
8-9	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.4	.0	.0	.4
10-11	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
12	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
13-16	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
17-19	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
20-22	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
23-25	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
26-32	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
33-40	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
41-48	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
49-60	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
61-70	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
71-86	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
87+	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
TOT PCT	.0	2.7	.0	.0	.0	.0	2.7	.0	9.5	8.0	.8	.0	.0	18.2

PERIOD: (OVER-ALL) 1963-1969

DECEMBER  
TABLE 18 (CONT)AREA 0010 TASMANIA EAST  
42.45 148.1E

PCT FREQ OF WIND SPEED (KTS) AND DIRECTION VERSUS SEA HEIGHTS (FT)

HGT	1-3	4-10	11-21	22-33	34-47	48+	PCT	1-3	4-10	11-21	22-33	34-47	48+	PCT
<1	.0	1.5	.0	.0	.0	.0	1.5	.0	.0	.0	.0	.0	.0	.0
1-2	.0	7.6	.0	.0	.0	.0	7.6	.0	3.4	1.5	.0	.0	.0	4.9
3-4	.0	4.5	5.7	.0	.0	.0	10.2	.0	1.5	.0	3.0	.0	.0	4.5
5-6	.0	2.7	1.5	.0	.0	.0	4.2	.0	.4	1.5	.0	.0	.0	1.9
7	.0	.0	.0	1.1	.0	.0	1.1	.0	.0	.0	.0	.0	.0	.0
8-9	.0	.0	.0	1.1	.0	.0	1.1	.0	.0	.0	.0	.0	.0	.0
10-11	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
12	.0	.0	.0	1.1	.0	.0	1.1	.0	.0	.0	1.5	.0	.0	1.5
13-16	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
17-19	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
20-22	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
23-25	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
26-32	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
33-40	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
41-48	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
49-60	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
61-70	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
71-86	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
87+	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
TOT PCT	.0	16.3	7.2	3.4	.0	.0	26.9	.0	5.3	3.0	4.9	.0	.0	13.3

HGT	1-3	4-10	11-21	22-33	34-47	48+	PCT	1-3	4-10	11-21	22-33	34-47	48+	PCT	TOTAL PCT
<1	1.5	.0	.0	.0	.0	.0	1.5	.0	1.5	.0	.0	.0	.0	1.5	
1-2	.0	1.1	.0	.0	.0	.0	1.1	.0	.0	4.9	.0	.0	.0	4.9	
3-4	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
5-6	.0	.0	2.7	.0	.0	.0	2.7	.0	.0	.0	.0	.0	.0	.0	
7	.0	.0	.0	3.0	.0	.0	3.0	.0	.0	3.0	.0	.0	.0	3.0	
8-9	.0	.0	.0	1.1	.0	.0	1.1	.0	.0	.0	.0	.0	.0	.0	
10-11	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
12	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
13-16	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
17-19	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
20-22	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
23-25	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
26-32	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
33-40	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
41-48	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
49-60	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
61-70	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
71-86	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
87+	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
TOT PCT	1.5	1.1	2.7	4.2	.0	.0	9.5	.0	1.5	8.3	.4	.0	.0	10.2	98.5

## WIND SPEED (KTS) VS SEA HEIGHT (FT)

HGT	0-3	4-10	11-21	22-33	34-47	48+	PCT	TOT OBS
<1	3.0	4.5	.0	.0	.0	.0	7.6	
1-2	.0	22.7	10.6	.0	.0	.0	33.3	
3-4	.0	13.6	10.6	3.0	.0	.0	27.3	
5-6	.0	3.0	9.1	3.0	.0	.0	15.2	
7	.0	.0	6.1	4.5	.0	.0	10.6	
8-9	.0	.0	.0	3.0	.0	.0	3.0	
10-11	.0	.0	.0	1.5	.0	.0	1.5	
12	.0	.0	.0	1.5	.0	.0	1.5	
13-16	.0	.0	.0	.0	.0	.0	.0	
17-19	.0	.0	.0	.0	.0	.0	.0	
20-22	.0	.0	.0	.0	.0	.0	.0	
23-25	.0	.0	.0	.0	.0	.0	.0	
26-32	.0	.0	.0	.0	.0	.0	.0	
33-40	.0	.0	.0	.0	.0	.0	.0	
41-48	.0	.0	.0	.0	.0	.0	.0	
49-60	.0	.0	.0	.0	.0	.0	.0	
61-70	.0	.0	.0	.0	.0	.0	.0	
71-86	.0	.0	.0	.0	.0	.0	.0	
87+	.0	.0	.0	.0	.0	.0	.0	
TOT PCT	3.0	43.4	36.4	16.7	.0	.0	100.0	66

PERIOD: (OVER-ALL) 1950-1969

## TABLE 19

PERCENT FREQUENCY OF WAVE HEIGHT (FT) VS WAVE PERIOD (SECONDS)

PERIOD (SEC)	<1	1-2	3-4	5-6	7	8-9	10-11	12	13-16	17-19	20-22	23-25	26-32	33-40	41-48	49-60	61-70	71-86	87+	TOTAL	MEAN HGT
<6	2.4	3.7	8.5	3.7	.0	3.7	1.2	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	19	4
6-7	.0	2.4	6.1	18.3	6.1	2.4	2.4	7.3	1.2	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	38	6
8-9	.0	.0	.0	2.4	6.1	3.7	1.2	.0	2.4	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	13	8
10-11	.0	.0	.0	1.2	1.2	2.4	1.2	.0	2.4	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	7	9
12-14	.0	.0	.0	.0	.0	.0	1.2	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	1	10
15-17	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	1	7
18-20	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	3	2
TOTAL	3	6	13	21	12	10	6	6	5	0	0	0	0	0	0	0	0	0	0	82	6
PCT	3.7	7.3	15.9	25.6	14.6	12.2	7.3	7.3	6.1	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	100.0	

## ANNUAL

PERIOD: (PRIMARY) 1887-1973  
(OVER-ALL) 1854-1973

AREA 0010 TASMANIA EAST  
42.95 148.2E

TABLE 1

## PERCENT FREQUENCY OF WEATHER OCCURRENCE BY WIND DIRECTION

WIND DIR	PRECIPITATION TYPE							OTHER WEATHER PHENOMENA							NO SIG WEA
	RAIN	RAIN SHWR	DRZL	FRZG PCPN	SNOW	OTHER FRZN PCPN	HAIL	PCPN AT DB TIME	PCPN PAST HOUR	THDR LTNG	FOG WD PCPN	FOG WD PCPN PAST HR	SMOKE HAZE	SPRAY BLWG DUST BLWG SNOW	
N	2.8	4.5	1.2	.0	.0	.0	.0	8.5	.7	1.3	4.8	.2	1.8	.0	83.3
NE	4.7	4.1	.8	.0	.0	.0	.0	9.7	1.1	.3	9.2	.1	.4	.0	79.2
E	4.4	6.0	2.4	.0	.0	.0	.0	12.7	1.4	.9	10.1	.0	1.5	.0	73.3
SE	5.8	9.9	3.7	.0	.0	.0	.0	19.5	1.4	.3	5.7	.0	.5	.0	72.9
S	7.1	12.5	4.2	.0	.0	.0	.0	24.2	.9	.5	2.3	.0	.5	.0	72.0
SW	3.1	15.3	2.9	.0	.0	.0	2.5	23.5	1.5	.9	2.1	.0	.4	.0	72.1
W	3.4	12.1	1.2	.0	.0	.0	.4	17.1	.9	1.7	2.3	.0	.7	.1	78.4
NW	2.0	6.4	1.1	.0	.0	.0	.2	9.7	.5	.7	3.4	.0	.2	.0	85.9
VAR	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
CALM	.0	.0	2.8	.0	.0	.0	.0	2.8	.0	.0	2.8	8.3	.0	.0	52.8
TOT PCT	3.9	8.8	2.1	.0	.0	.0	.6	15.3	.9	1.0	4.5	.1	.7	*	78.2
TOT OBS:	6795														

TABLE 2

## PERCENT FREQUENCY OF WEATHER OCCURRENCE BY HOUR

HOUR (GMT)	PRECIPITATION TYPE							OTHER WEATHER PHENOMENA							NO SIG WEA
	RAIN	RAIN SHWR	DRZL	FRZG PCPN	SNOW	OTHER FRZN PCPN	HAIL	PCPN AT DB TIME	PCPN PAST HOUR	THDR LTNG	FOG WD PCPN	FOG WD PCPN PAST HR	SMOKE HAZE	SPRAY BLWG DUST BLWG SNOW	
00&03	3.0	8.0	2.1	.0	.0	.0	.6	13.6	1.0	.2	4.9	.0	.7	.1	79.8
06&09	3.8	9.0	1.7	.0	.0	.0	.4	14.8	.9	1.0	4.9	.1	1.0	.0	77.9
12&15	4.4	7.8	1.6	.0	.0	.0	.4	14.1	.9	1.7	3.8	*	.4	.0	79.8
18&21	4.2	8.9	2.7	.0	.0	.0	1.1	16.7	.8	1.3	5.0	*	.5	.0	76.5
TOT PCT	3.9	8.6	2.1	.0	.0	.0	.6	15.1	.9	1.1	4.7	*	.7	*	78.2
TOT OBS:	6750														

TABLE 3

## PERCENTAGE FREQUENCY OF WIND DIRECTION BY SPEED AND BY HOUR

WIND DIR	WIND SPEED (KNOTS)							TOTAL OBS	PCT FREQ	MEAN SPD	HOUR (GMT)							
	0-3	4-10	11-21	22-33	34-47	48+					00	03	06	09	12	15	18	21
N	1.4	6.7	6.1	2.0	.2	.1		16.5	12.6		16.1	16.6	13.2	14.5	16.7	18.3	18.4	17.5
NE	1.0	4.0	2.8	.5	.1	.0		8.4	11.1		7.4	6.9	10.1	11.5	7.0	8.2	7.2	6.7
E	.7	2.1	1.1	.6	*	.0		4.5	11.0		4.1	4.3	5.4	5.3	7.2	4.0	2.8	4.0
SE	1.3	4.5	2.1	1.0	.1	*		9.0	12.1		8.2	9.4	13.7	11.9	5.6	7.0	6.4	5.3
S	.9	4.3	4.1	1.9	.6	.1		11.9	14.4		11.8	10.2	14.6	13.6	13.6	11.9	10.5	10.0
SW	.8	4.2	5.3	3.4	1.2	.2		15.0	17.1		20.4	14.7	13.7	18.2	14.1	15.5	15.6	15.1
W	1.0	4.6	5.8	2.9	1.0	.2		15.4	16.0		17.2	17.3	13.5	12.7	16.7	15.2	16.2	16.1
NW	2.4	7.9	5.9	2.1	.5	.1		18.8	12.5		14.4	19.3	15.2	13.8	17.9	19.5	22.1	24.8
VAR	.0	.0	.0	.0	.0	.0		.0	.0		.0	.0	.0	.0	.0	.0	.0	.0
CALM	.7							.7	.2		.3	1.2	.7	.5	1.3	.4	1.0	.4
TOT OBS							6862		13.5		242	1241	1148	977	354	927	1134	839
TOT PCT	10.0	38.3	33.0	14.4	3.7	.6		100.0			100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0

TABLE 3A

WIND DIR	WIND SPEED (KNOTS)					TOTAL OBS	PCT FREQ	MEAN SPD	HOUR (GMT)				
	0-6	7-16	17-27	28-40	41+				00	06	12	18	21
N	4.1	7.6	3.9	.8	.1		16.5	12.6	16.7	13.8	18.0	18.1	
NE	2.6	4.1	1.4	.2	*		8.4	11.1	7.2	10.7	7.9	7.0	
E	1.7	1.8	.7	.3	.0		4.5	11.0	4.4	5.3	4.9	3.2	
SE	3.1	3.7	1.6	.5	.1		9.0	12.1	9.4	12.9	6.6	6.0	
S	2.7	4.9	2.9	1.2	.1		11.9	14.4	10.5	14.2	12.3	10.2	
SW	2.3	5.6	4.3	2.3	.5		15.0	17.1	15.4	14.8	14.8	15.4	
W	2.7	6.2	4.3	1.7	.5		15.4	16.0	17.3	13.2	15.6	16.1	
NW	5.5	8.1	3.9	.9	.3		18.8	12.5	18.3	14.5	19.3	23.3	
VAR	.0	.0	.0	.0	.0		.0	.0	.0	.0	.0	.0	
CALM	.7						.7	.2	1.0	.6	.6	.7	
TOT OBS						6862		13.5	1483	2125	1281	1973	
TOT PCT	25.5	42.0	23.0	7.9	1.6		100.0		100.0	100.0	100.0	100.0	

PERIOD: (PRIMARY) 1887-1973  
(OVER-ALL) 1854-1973

ANNUAL

AREA 0010 TASMANIA EAST  
42.5S 148.2E

TABLE 4

PERCENTAGE FREQUENCY OF WIND SPEED BY HOUR (GMT)

HOUR	CALM	1-3	4-10	WIND SPEED (KNOTS)			48+	MEAN	PCT FREQ	TOTAL OBS
				11-21	22-33	34-47				
00003	1.0	8.0	33.0	35.5	16.3	5.0	1.2	14.9	100.0	1483
06009	.6	8.2	41.3	32.6	13.8	3.2	.3	13.1	100.0	2125
12015	.6	9.0	36.5	33.0	14.5	3.9	.5	13.5	100.0	1281
18021	.7	11.7	39.1	31.4	13.4	3.0	.6	12.8	100.0	1973
TOT								13.5		6862
PCT	.7	9.3	38.3	33.0	14.4	3.7	.6		100.0	

TABLE 5

PCT FREQ OF TOTAL CLOUD AMOUNT (EIGHTHS)  
BY WIND DIRECTION

WIND DIR	0-2	3-4	5-7	8-6	TOTAL OBS	MEAN CLOUD COVER
N	4.7	1.5	6.7	4.0		4.7
NE	1.3	.4	3.0	2.8		5.8
E	1.4	.9	1.5	1.4		5.4
SE	.8	.6	2.0	2.8		6.0
S	1.6	2.2	5.0	5.2		5.9
SW	3.5	2.8	6.7	3.0		4.9
W	5.3	3.7	4.7	1.9		3.9
NH	4.3	3.2	6.3	3.1		4.6
VAR	.0	.0	.0	.0		.0
CALM	.5	.3	.3	.1		2.5
TOT OBS					1063	5.0
TOT PCT	23.5	15.6	36.3	24.6	100.0	

TABLE 6

PERCENTAGE FREQUENCY OF CEILING HEIGHTS (FT, NH > 4/8)  
AND OCCURRENCE OF NH < 5/8 BY WIND DIRECTION

000	150	300	600	1000	2000	3500	5000	6500	8000+	NH <5/8	TOTAL
149	299	599	999	1999	3499	4999	6499	7999		ANY HGT	OBS
.1	.0	.3	1.3	2.9	1.0	.9	.1	.0	.6	9.8	
.3	.0	.0	.8	2.0	.9	.6	.0	.0	.1	2.9	
.0	.0	.1	.5	1.4	.7	.0	.1	.0	.0	2.8	
.1	.1	.1	1.3	1.6	.8	*	.0	.1	.1	2.0	
.1	.1	.2	2.0	3.5	2.1	.5	.0	.0	*	5.6	
.0	.0	.1	2.4	4.1	1.3	.4	.0	.0	.2	7.6	
.0	.0	.0	1.0	2.1	1.2	.4	*	.0	.2	10.6	
*	.0	.2	1.4	2.2	1.4	.7	.1	.0	.1	10.8	
.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
.0	.0	.0	.0	.1	.1	.0	.0	.0	.0	1.1	
.5	.1	1.0	10.5	19.9	9.6	3.7	.3	.0	1.1	53.2	100.0

TABLE 7

CUMULATIVE PCT FREQ OF SIMULTANEOUS OCCURRENCE  
OF CEILING HEIGHT (NH > 4/8) AND VSBY (NM)

CEILING (FEET)	VSBY (NM)							
	= OR > 10	= OR > 5	= OR > 2	= OR > 1	= OR > 1/2	= OR > 1/4	= OR > 30YD	= OR > 0
= OR > 6500	1.1	1.1	1.1	1.1	1.1	1.1	1.1	1.1
= OR > 4000	1.4	1.4	1.5	1.5	1.5	1.5	1.5	1.5
= OR > 3500	3.9	5.0	5.2	5.2	5.2	5.2	5.2	5.2
= OR > 2000	11.7	14.2	14.5	14.6	14.6	14.6	14.6	14.6
= OR > 1000	26.9	33.1	34.2	34.2	34.2	34.2	34.3	34.3
= OR > 600	33.0	42.7	44.8	44.8	45.0	45.0	45.0	45.0
= OR > 300	33.3	43.3	45.7	45.8	45.9	45.9	46.0	46.0
= OR > 150	33.4	43.4	45.8	46.0	46.1	46.1	46.1	46.1
= OR > 0	33.5	43.6	46.1	46.2	46.3	46.4	46.6	46.6

TOTAL NUMBER OF OBS: 1078

PCT FREQ NH < 5/8: 53.4

TABLE 7A

PERCENTAGE FREQ OF LOW CLOUDS (EIGHTHS)

0	1	2	3	4	5	6	7	8	OBS	TOTAL OBS
7.0	12.2	13.9	10.8	7.6	7.8	9.6	11.1	18.7	.4	1234

PERIOD: (PRIMARY) 1887-1973  
(OVER-ALL) 1854-1973

ANNUAL

AREA 0010 TASMANIA EAST  
42.5S 148.2E

TABLE 8

PERCENT FREQ OF WIND DIRECTION VS OCCURRENCE OR NON-OCCURRENCE OF  
PRECIPITATION WITH VARYING VALUES OF VISIBILITY

VSBY (NM)		N	NE	E	SE	S	SW	W	NW	VAR	CALM	PCT	TOTAL OBS	
<1/2	PCP	.0	.0	.0	*	.0	.0	.0	.0	.0	.0	*		
	NO PCP	*.2	.1	*	*	*	*	*	*	.0	.0	.4		
	TOT %	*	.2	.1	*	*	*	*	*	.0	.0	.4		
1/2<1	PCP	.1	*	*	.2	.2	.1	.1	*	.0	.0	.6		
	NO PCP	.5	.7	.4	.7	.3	.2	.2	.4	.0	.0	3.4		
	TOT %	.6	.7	.4	.8	.5	.3	.2	.4	.0	.0	4.1		
1<2	PCP	*	*	.0	*	.1	.0	.0	*	.0	.0	.2		
	NO PCP	.3	*	*	*	*	.1	*	*	.0	*	.6		
	TOT %	.3	.1	*	.1	.1	*	.1	.1	.0	*	.8		
2<5	PCP	.1	*	.1	.1	.2	.1	.1	.1	.0	.0	.8		
	NO PCP	.2	.1	.1	.1	.2	.1	.2	.1	.0	.0	1.0		
	TOT %	.3	.1	.2	.2	.3	.2	.3	.1	.0	.0	1.8		
5<10	PCP	1.1	.7	.4	1.0	2.3	3.0	2.4	1.6	.0	*	12.5		
	NO PCP	9.5	4.7	2.0	5.3	5.0	6.9	7.9	12.0	.0	.1	53.5		
	TOT %	10.7	5.3	2.4	6.3	7.3	10.0	10.3	13.6	.0	.1	66.0		
10+	PCP	.1	.1	*	.2	.2	.3	.1	.1	.0	.0	1.1		
	NO PCP	4.4	1.9	1.2	1.7	3.6	4.1	4.3	4.5	.0	.2	25.9		
	TOT %	4.5	2.0	1.3	1.9	3.9	4.4	4.4	4.5	.0	.2	27.0		
TOT OBS														6093
TOT PCT		16.4	8.4	4.4	9.3	12.0	14.9	15.3	18.8	.0	.4	100.0		

TABLE 9

PERCENT FREQ OF WIND DIRECTION VS WIND SPEED  
WITH VARYING VALUES OF VISIBILITY

VSBY (NM)	SPD KTS	N	NE	E	SE	S	SW	W	NW	VAR	CALM	PCT	TOTAL OBS
<1/2	0-3	*	*	*	.0	.0	*	.0	*	.0	.0	*	
	4-10	*	.1	*	*	.0	.0	.0	*	.0	*	.2	
	11-21	*	.1	.0	.0	*	*	.0	.0	.0	*	.1	
	22+	*	*	.0	*	.0	.0	*	*	.0	*	.1	
	TOT %	*	.1	.1	*	*	*	*	*	.0	.0	.4	
1/2<1	0-3	.1	.1	*	.2	.1	.1	.1	.1	.0	.0	.7	
	4-10	.2	.4	.2	.4	.1	.1	.1	.2	.0	*	1.7	
	11-21	.2	.2	.1	.2	.1	.1	.1	.1	.0	*	1.1	
	22+	.1	.1	.1	.1	.1	.1	*	.1	.0	*	.6	
	TOT %	.6	.7	.4	.9	.4	.3	.2	.6	.0	.0	4.2	
1<2	0-3	.0	.0	.0	*	.0	.0	*	*	.0	*	*	
	4-10	.1	*	*	*	*	*	*	*	.0	*	.3	
	11-21	.2	*	*	*	*	*	.0	*	.0	*	.4	
	22+	*	*	.0	*	*	.0	*	*	.0	*	.1	
	TOT %	.3	.1	*	.1	.1	*	.1	.1	.0	*	.8	
2<5	0-3	.0	.0	*	.0	*	*	.0	.0	.0	.0	*	
	4-10	.1	*	.1	.1	.1	*	*	*	.0	*	.5	
	11-21	.1	.1	.1	.1	.1	.1	.1	*	.0	*	.8	
	22+	.2	*	*	.1	.1	.1	.1	.1	.0	*	.7	
	TOT %	.4	.1	.2	.3	.3	.2	.3	.1	.0	.0	2.0	
5<10	0-3	1.3	.9	.6	1.1	.6	.6	.8	2.2	.0	.1	8.2	
	4-10	4.7	2.4	1.1	3.1	2.6	2.8	3.2	6.1	.0	*	25.9	
	11-21	3.3	1.5	.4	1.3	2.5	3.5	3.6	3.8	.0	*	20.0	
	22+	1.6	.4	.4	.8	1.5	3.0	2.7	1.4	.0	*	11.7	
	TOT %	10.9	5.3	2.4	6.2	7.2	9.8	10.2	13.6	.0	.1	65.8	
10+	0-3	.2	*	.1	.1	.2	.1	.1	.2	.0	.2	1.1	
	4-10	1.9	1.1	.7	1.1	1.6	1.4	1.4	1.7	.0	*	11.0	
	11-21	2.1	.8	.4	.5	1.4	1.7	2.0	1.9	.0	*	10.8	
	22+	.4	.1	.1	.1	.7	1.2	.8	.7	.0	*	4.0	
	TOT %	4.5	2.0	1.3	1.9	3.6	4.3	4.4	4.5	.0	.2	26.9	
TOT OBS													6201
TOT PCT		16.7	8.4	4.4	9.3	11.9	14.8	15.2	18.9	.0	.4	100.0	



PERIOD: (PRIMARY) 1887-1973  
(OVER-ALL) 1854-1973

# ANNUAL

AREA 0010 TASMANIA EAST  
42.55 148.2E

TABLE 10

PERCENT FREQUENCY OF CEILING HEIGHTS (FEET, NH >4/8) AND  
OCCURRENCE OF NH <5/8 BY HOUR

HOURL (GMT)	000 149	150 299	300 599	600 999	1000 1999	2000 3499	3500 4999	5000 6499	6500 7999	8000+	TOTAL	NH <5/8 ANY HGT	TOTAL OBS
00003	.6	.2	1.2	8.0	20.1	10.6	3.3	.0	.0	1.6	45.7	54.3	253
06009	.7	.0	1.4	11.8	17.5	7.7	3.1	.0	.0	1.3	43.6	56.4	290
12015	.2	.2	.2	11.1	17.1	9.3	3.6	.7	.0	.2	42.8	57.2	337
18021	.2	.0	.9	8.5	19.3	9.6	4.0	.5	.0	1.3	44.3	55.7	276
TOT													1156
PCT	.5	.1	.9	10.1	18.6	8.8	3.5	.3	.0	1.1	44.0	56.0	100.0

TABLE 11

PERCENT FREQUENCY VSBY (NM) BY HOUR

HOURL (GMT)	<1/2	1/2-1	1-2	2-5	5-10	10+	TOTAL OBS
00003	.7	5.0	.6	1.6	64.4	27.6	1137
06009	.3	4.9	.5	2.4	69.9	21.9	2204
12015	.2	3.5	.8	2.4	59.0	34.1	1401
18021	.5	4.4	.9	1.2	70.4	22.6	2123
TOT							6865
PCT	.4	4.5	.7	1.9	66.7	25.7	100.0

TABLE 12

CUMULATIVE PCT FREQ OF RANGES OF VSBY (NM) AND/OR  
CEILING HGT (FEET, NH >4/8) BY HOUR

HOURL (GMT)	<150 <50YD	<600 <1	<1000 <5	1000+ AND 5+	NH <5/8 AND 5+	TOTAL OBS
00003	.7	2.7	12.5	36.3	51.2	233
06009	.7	2.2	16.3	31.2	52.5	262
12015	.3	.7	14.4	30.8	54.8	324
18021	.3	1.4	11.9	36.0	52.1	259
TOT						1078
PCT	.5	1.8	14.1	33.1	52.8	100.0

TABLE 13

PERCENT FREQUENCY OF RELATIVE HUMIDITY BY TEMP

TEMP F	0-29	30-39	40-49	50-59	60-69	70-79	80-89	90-100	TOTAL OBS	PCT FREQ
70/74	.0	.0	.0	.2	.2	.1	*	.1	.6	
65/69	.0	.0	.0	.2	.3	.8	1.0	1.4	3.8	
60/64	.0	.0	.1	.8	1.8	5.0	5.4	4.4	17.5	
55/59	.0	.0	.2	.9	5.7	12.6	12.0	6.9	38.2	
50/54	.0	.0	.3	1.3	6.9	10.5	9.0	4.7	32.7	
45/49	.0	.0	.1	.2	1.3	2.3	1.7	.8	6.4	
40/44	.0	.0	.0	.0	.1	.4	.2	.2	.9	
TOTAL									1442	100.0
PCT	.0	.0	.7	3.6	16.4	31.7	29.3	18.3		

TABLE 14

PERCENT FREQUENCY OF WIND DIRECTION BY TEMP

	N	NE	E	SE	S	SW	W	NW	VAR	CALM
70/74	.2	.1	*	.0	.0	.0	.1	.2	.0	.0
65/69	1.3	.8	.3	.3	.3	*	.2	.5	.0	.0
60/64	4.9	2.6	1.3	1.2	1.9	1.2	1.4	2.8	.0	.3
55/59	7.0	3.2	2.4	3.2	4.2	4.7	5.1	8.0	.0	.4
50/54	4.3	1.0	1.1	2.0	5.3	6.8	6.7	4.9	.0	.5
45/49	.1	.0	.2	.2	1.6	2.5	1.3	.5	.0	.1
40/44	.0	.0	.0	.0	.1	.6	.1	.1	.0	.0
TOTAL	17.9	7.7	5.4	6.9	13.3	15.8	14.8	17.0	.0	1.2

TABLE 15

MEANS, EXTREMES AND PERCENTILES OF TEMP (DEG F) BY HOUR

HOURL (GMT)	MAX	99%	95%	50%	5%	1%	MIN	MEAN	TOTAL OBS
00003	77	66	64	56	50	47	41	57.7	1515
06009	78	67	64	56	50	47	41	57.8	2269
12015	74	64	61	55	48	45	41	55.9	1451
18021	76	63	60	54	47	44	37	55.4	2222
TOT	78	66	62	55	49	46	37	56.7	7457

TABLE 16

PERCENT FREQUENCY OF RELATIVE HUMIDITY BY HOUR

HOURL (GMT)	0-29	30-59	60-69	70-79	80-89	90-100	MEAN	TOTAL OBS
00003	.0	6.0	16.4	35.7	22.3	19.5	78	287
06009	.0	6.3	17.4	32.2	26.7	17.5	78	375
12015	.0	3.6	13.8	30.1	37.2	15.2	80	410
18021	.0	2.0	18.9	28.3	28.8	22.0	81	404
TOT	0	67	238	445	433	293	78	1476

PERIOD: (PRIMARY) 1967-1973  
(OVER-ALL) 1954-1973

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AREA 0010 TASMANIA EAST  
42.55 146.2E

TABLE 17

PCT FREQ OF AIR TEMPERATURE (DEG F) AND THE OCCURRENCE OF FOG (WITHOUT PRECIPITATION)  
VS AIR-SEA TEMPERATURE DIFFERENCE (DEG F)

AIR-SEA TMP DIF	37	41	45	49	53	57	61	65	69	73	TOT	W FOG	WD FOG
	40	44	48	52	56	60	64	68	72	76			
14/16	.0	.0	.0	.0	.0	.0	.0	.0	.0	*	2	.0	*
11/13	.0	.0	.0	.0	.0	.0	.0	.0	.1	.1	26	.0	.3
9/10	.0	.0	.0	.0	.0	*	.1	.1	.2	.1	46	*	.5
7/8	.0	.0	.0	.0	*	.3	.3	.3	.3	.1	96	*	1.2
6	.0	.0	.0	.0	*	.3	.3	.2	.2	*	84	.1	1.0
5	.0	.0	.0	*	.4	.6	.6	.4	.2	*	147	.2	2.0
4	.0	.0	.0	.1	.5	1.0	.8	.6	.2	*	230	.2	2.9
3	.0	.0	*	.1	.8	1.5	1.0	.6	.1	*	285	.2	3.8
2	.0	.0	.0	.6	2.3	2.3	1.2	.7	.1	.0	453	.5	6.7
1	.0	.0	.0	1.2	3.9	2.1	1.6	.6	*	.0	580	.7	8.7
0	.0	.0	.1	2.4	5.2	3.2	1.9	.4	*	.0	812	.8	12.3
-1	.0	.0	.1	3.9	4.9	2.7	1.5	.1	.0	.0	803	.7	12.5
-2	.0	.0	.6	4.7	3.6	2.4	.8	*	.0	.0	734	.4	11.7
-3	.0	*	.7	4.4	2.5	1.7	.4	.1	.0	.0	597	.3	9.5
-4	.0	*	1.2	2.7	1.8	1.3	.2	*	.0	.0	462	.2	7.2
-5	.0	.1	1.5	2.1	1.4	.6	.1	*	.0	.0	357	.2	5.3
-6	.0	.2	1.0	1.1	.9	.2	.0	.0	.0	.0	221	.1	3.4
-7/-8	.0	.7	1.2	1.1	.9	.3	*	.0	.0	.0	288	.1	4.1
-9/-10	.1	.3	.3	.3	.2	*	.0	.0	.0	.0	88	.0	1.2
-11/-13	*	.1	.1	.1	*	.0	.0	.0	.0	.0	31	*	.4
-14/-16	.0	*	*	.0	.0	.0	.0	.0	.0	.0	3	.0	*
TOTAL											6345		
PCT	.1	1.5	6.9	24.9	29.5	20.5	10.8	4.3	1.3	.3	100.0	4.9	95.1

PERIOD: (OVER-ALL) 1963-1973

TABLE 18

PCT FREQ OF WIND SPEED (KTS) AND DIRECTION VERSUS SEA HEIGHTS (FT)

HGT	1-3	4-10	11-21	22-33	34-47	48+	PCT	1-3	4-10	11-21	22-33	34-47	48+	PCT
<1	.2	.2	.1	.0	.0	.0	.5	.0	.5	.0	.0	.0	.0	.5
1-2	.1	3.5	1.6	.0	.0	.0	5.1	*	2.3	.5	.0	.0	.0	2.8
3-4	.0	1.9	.4	.0	.0	.0	6.3	.0	.9	1.2	.1	.0	.0	2.2
5-6	.1	.1	2.5	.5	.1	.0	3.3	.0	*	1.1	.2	*	.0	1.3
7	.0	.0	.9	.2	.0	.0	1.1	.0	.1	.3	.0	.0	.0	.4
8-9	.0	.2	.2	.0	.0	.0	.3	.0	.0	.2	.1	.0	.0	.3
10-11	.0	.0	.2	.4	.0	.1	.7	.0	.0	.0	.0	.0	.0	.0
12	.0	.0	.0	.0	.2	.0	.2	.0	.0	.0	.0	*	.0	*
13-16	.0	.0	.0	.2	.0	.0	.2	.0	.0	.0	.0	.0	.0	.0
17-19	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
20-22	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
23-25	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
26-32	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
33-40	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
41-48	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
49-60	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
61-70	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
71-86	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
87+	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
TOT PCT	.3	5.9	9.4	1.7	.3	.1	17.8	*	3.8	3.2	.4	*	.0	7.5

HGT	1-3	4-10	11-21	22-33	34-47	48+	PCT	1-3	4-10	11-21	22-33	34-47	48+	PCT
<1	.2	.2	.0	.0	.0	.0	.4	.0	.3	.0	.0	.0	.0	.3
1-2	.1	1.8	.3	.0	.0	.0	2.3	.0	1.1	.4	.0	.0	.0	1.5
3-4	.0	.6	.8	.1	.0	.0	1.5	.0	1.5	1.4	.0	.0	.0	3.0
5-6	.0	.1	.7	.0	.0	.0	.8	.0	.1	.6	.4	*	.0	1.2
7	.0	.0	.0	.0	.0	.0	.0	.0	*	.6	.1	.0	.0	.7
8-9	.1	.0	.1	.0	.0	.0	.2	.0	.0	.2	.2	.0	.0	.4
10-11	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
12	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
13-16	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
17-19	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.1	.1
20-22	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
23-25	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
26-32	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
33-40	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
41-48	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
49-60	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
61-70	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
71-86	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
87+	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
TOT PCT	.4	2.7	2.0	.1	.0	.0	5.3	.0	3.1	3.1	.8	*	.1	7.1

PERIOD: (OVER-ALL) 1963-1973

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TABLE 18 (CONT)

PCT FREQ OF WIND SPEED (KTS) AND DIRECTION VERSUS SEA HEIGHTS (FT)

HGT	S							PCT	SW							PCT
	1-3	4-10	11-21	22-33	34-47	48+			1-3	4-10	11-21	22-33	34-47	48+		
<1	.1	.5	.0	.0	.0	.0	.0	.6	.2	.2	.0	.0	.0	.0	.0	.4
1-2	.1	2.0	1.0	.0	.0	.0	3.1	.1	.1	2.0	.3	.0	.0	.0	.0	2.4
3-4	.0	2.1	2.8	.3	.0	.0	5.1	.0	.0	.8	1.8	.6	.0	.0	.0	3.3
5-6	.0	.3	1.9	.4	.1	.0	2.7	.0	.0	.3	2.5	.5	.0	.0	.0	3.3
7	.0	.1	.0	.2	.3	.1	1.5	.0	.0	.1	.7	1.2	.4	.0	.0	2.6
8-9	.0	.0	.0	.3	.1	.0	.5	.0	.0	.0	.2	.4	.3	.0	.0	.7
10-11	.0	.0	.0	.2	.0	.0	.2	.0	.0	.0	.0	.5	.0	.0	.0	.5
12	.0	.0	.0	.1	.0	.0	.1	.0	.0	.1	.0	.0	.1	.0	.0	.3
13-16	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.2
17-19	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.6
20-22	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
23-25	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.2
26-32	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
33-40	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
41-48	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
49-60	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
61-70	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
71-86	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
87+	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
TOT PCT	.2	5.0	6.1	2.2	.6	.1	14.2	.3	3.6	5.6	3.7	2.2	.0	.0	.0	15.3

HGT	W							PCT	NW							TOTAL PCT
	1-3	4-10	11-21	22-33	34-47	48+			1-3	4-10	11-21	22-33	34-47	48+		
<1	.1	.4	.0	.0	.0	.0	.5	.2	.2	.1	.0	.0	.0	.0	.5	.5
1-2	.1	1.8	.4	.0	.0	.0	2.3	.2	2.3	1.4	.0	.0	.0	.0	3.9	3.9
3-4	.0	.8	2.4	.2	.0	.0	3.3	.0	1.9	4.0	.5	.0	.0	.0	6.4	6.4
5-6	.0	.0	2.9	.8	.1	.0	3.8	.0	.1	1.4	.5	.0	.0	.0	2.1	2.1
7	.0	.0	.5	1.1	.2	.0	1.8	.0	.0	.6	.6	.1	.0	.0	1.2	1.2
8-9	.0	.0	.2	.7	.1	.0	1.0	.0	.0	.1	.8	.2	.0	.0	1.1	1.1
10-11	.0	.0	.2	.3	.5	.1	1.1	.0	.0	.0	.5	.2	.0	.0	.8	.8
12	.0	.0	.0	.2	.1	.0	.2	.0	.0	.0	.1	.0	.0	.0	.1	.1
13-16	.0	.0	.1	.1	.2	.0	.4	.0	.0	.0	.0	.0	.0	.0	.1	.1
17-19	.0	.0	.0	.0	.2	.0	.2	.0	.0	.0	.0	.0	.2	.0	.2	.2
20-22	.0	.0	.0	.0	.2	.0	.2	.0	.0	.0	.0	.0	.1	.0	.1	.1
23-25	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
26-32	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
33-40	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
41-48	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
49-60	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
61-70	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
71-86	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
87+	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
TOT PCT	.2	3.0	6.6	3.4	1.6	.1	14.9	.4	4.5	7.6	3.0	.8	.0	.0	16.3	98.5

WIND SPEED (KTS) VS SEA HEIGHT (FT)

HGT	0-3	4-10	11-21	22-33	34-47	48+	PCT	TOT DBS
<1	3.1	2.7	.2	.0	.0	.0	6.0	
1-2	.6	16.8	5.9	.0	.0	.0	23.3	
3-4	.0	10.3	18.3	2.1	.0	.0	30.8	
5-6	.1	1.2	13.4	3.3	.3	.0	18.3	
7	.0	.4	3.9	3.8	1.1	.1	9.2	
8-9	.1	.3	1.1	2.5	.7	.0	4.7	
10-11	.0	.0	.4	1.9	1.1	.4	3.7	
12	.0	.0	.0	1.0	.3	.0	1.2	
13-16	.0	.1	.1	.4	.4	.0	1.0	
17-19	.0	.0	.0	.0	.6	.1	.7	
20-22	.0	.0	.0	.0	.9	.0	.9	
23-25	.0	.0	.0	.0	.0	.0	.0	
26-32	.0	.0	.0	.0	.2	.0	.2	
33-40	.0	.0	.0	.0	.0	.0	.0	
41-48	.0	.0	.0	.0	.0	.0	.0	
49-60	.0	.0	.0	.0	.0	.0	.0	
61-70	.0	.0	.0	.0	.0	.0	.0	
71-86	.0	.0	.0	.0	.0	.0	.0	
87+	.0	.0	.0	.0	.0	.0	.0	899
TOT PCT	3.9	31.7	43.2	15.1	5.5	.5	100.0	

PERIOD: (OVER-ALL) 1950-1969

TABLE 19

PERCENT FREQUENCY OF WAVE HEIGHT (FT) VS WAVE PERIOD (SECONDS)

PERIOD (SEC)	<1	1-2	3-4	5-6	7	8-9	10-11	12	13-16	17-19	20-22	23-25	26-32	33-40	41-48	49-60	61-70	71-86	87+	TOTAL	MEAN HGT
<6	.8	6.0	10.5	5.9	1.4	.7	1.0	.1	.3	.1	.0	.0	.0	.0	.0	.0	.0	.0	.0	28.5	4
6-7	.0	1.3	6.5	11.4	6.1	3.6	2.8	2.5	1.9	.0	.0	.1	.2	.0	.0	.0	.0	.0	.0	38.0	6
8-9	.0	.3	1.9	2.3	5.0	3.4	1.3	1.7	1.8	.3	.3	.1	.2	.0	.0	.0	.0	.0	.0	19.5	8
10-11	.0	.1	.3	1.8	1.1	1.7	1.2	.3	.6	.3	.1	.0	.1	.0	.0	.0	.0	.0	.0	7.5	9
12-13	.0	.0	.2	.4	.5	.2	.6	.3	.8	.1	.6	.0	.0	.0	.0	.0	.0	.0	.0	3.9	11
>13	.0	.0	.0	.1	.1	.0	.0	.0	.3	.1	.2	.0	.1	.0	.0	.0	.0	.0	.0	1.1	16
INDET	.7	.4	1.2	.9	.6	.8	.6	.0	.0	.4	.0	.1	.0	.0	.0	.0	.0	.0	.0	6.3	6
TOTAL																				105.1	7
PCT	1.5	8.1	20.6	22.6	14.8	10.5	7.6	4.7	5.7	1.3	1.2	.4	.7	.0	.0	.0	.0	.0	.0	100.0	

PERIOD: (PRIMARY) 1867-1973  
(OVER-ALL) 1854-1973

TABLE 20

AREA 0010 TASMANIA EAST  
42.55 148.2E

PERCENT FREQUENCY OF OCCURRENCE OF SEA TEMP (DEG F) BY MONTH

SEA TMP DEG F	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC	ANN	PCT
96+	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	0	.0
95/96	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	0	.0
93/94	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	0	.0
91/92	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	0	.0
89/90	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	0	.0
87/88	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	0	.0
85/86	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	0	.0
83/84	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	0	.0
81/82	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	0	.0
79/80	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	0	.0
77/78	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	0	.0
75/76	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	0	.0
73/74	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	0	.0
71/72	.0	.1	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	1	*
69/70	.2	1.8	.3	.0	.0	.0	.0	.0	.0	.0	.0	.7	27	.4
67/68	1.3	4.6	.9	.5	.0	.0	.0	.0	.0	.0	.0	1.2	76	1.1
65/66	6.9	12.3	5.0	.9	.3	.0	.0	.0	.0	.0	.3	6.3	276	3.9
63/64	16.4	23.3	17.8	3.9	.0	.2	.0	.0	.0	.0	.6	12.7	651	9.2
61/62	27.5	26.4	26.6	11.3	3.3	.2	.0	.0	.0	.0	3.5	14.0	972	13.7
59/60	24.9	19.0	22.4	19.4	8.4	2.9	2.0	2.3	.3	3.2	6.1	15.6	1008	14.2
57/58	14.1	7.8	18.0	33.4	18.9	10.5	5.3	4.9	3.4	9.6	14.9	19.9	1111	15.7
55/56	6.9	3.6	6.2	20.3	35.4	28.8	23.5	9.3	15.4	19.6	27.4	15.9	1131	16.0
53/54	1.6	.4	1.4	8.2	19.7	24.7	37.0	29.5	35.6	29.2	35.3	10.1	949	13.4
51/52	.2	.4	1.0	1.5	9.8	19.5	23.5	34.7	28.8	30.4	10.2	2.7	600	8.5
49/50	.1	.2	.3	.2	3.8	11.1	7.3	17.5	14.0	6.7	1.5	.7	231	3.3
47/48	.0	.0	.1	.0	.5	2.1	1.4	1.9	1.7	1.0	.3	.2	34	.5
45/46	.0	.0	.0	.0	.0	.0	.0	.0	.7	.3	.0	.0	3	*
43/44	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	0	.0
41/42	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	0	.0
39/40	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	0	.0
37/38	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	0	.0
35/36	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	0	.0
33/34	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	0	.0
31/32	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	0	.0
29/30	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	0	.0
27/28	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	0	.0
25	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	0	.0
23	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	0	.0
21	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	0	.0
19	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	0	.0
17	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	0	.0
15	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	0	.0
13	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	0	.0
11	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	0	.0
9	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	0	.0
7	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	0	.0
5	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	0	.0
3	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	0	.0
1	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	0	.0
TOTAL	873	982	918	989	666	486	357	208	292	312	343	584	7070	100.0
MEAN	60.5	61.8	60.2	57.8	55.3	53.7	53.4	52.5	52.6	53.5	55.0	58.8	56.2	

TABLE 21

PRESSURE (MB)

AVERAGE BY HOUR (GMT)

MO	0000	0300	0600	0900	1200	1500	1800	2100	MEAN	TOTAL OBS
JAN	1007	1011	1010	1010	1011	1011	1009	1010	1010	268
FEB	1011	1013	1011	1011	1013	1009	1012	1011	1012	262
MAR	1017	1016	1015	1016	1016	1016	1015	1016	1016	326
APR	1014	1015	1014	1016	1016	1015	1016	1014	1015	263
MAY	1013	1015	1014	1014	1016	1014	1015	1015	1015	195
JUN	1016	1015	1014	1010	1012	1010	1011	1013	1013	177
JUL	1015	1011	1013	1016	1012	1017	1013	1014	1013	203
AUG	1015	1009	1010	1007	1012	1006	1014	1010	1010	140
SEP	1008	1011	1010	1015	1011	1015	1013	1015	1012	181
OCT	1015	1009	1010	1007	1013	1011	1013	1008	1011	168
NOV	1010	1012	1010	1012	1010	1017	1010	1015	1011	135
DEC	1012	1009	1011	1012	1012	1014	1009	1014	1011	195
ANN	1013	1012	1012	1012	1013	1013	1013	1013	1013	2513
OBS	240	366	394	263	355	265	472	158		

PERCENTILES

MO	MIN	1%	5%	25%	50%	75%	95%	99%	MAX
JAN	995	987	994	1004	1010	1017	1024	1029	1030
FEB	988	990	996	1005	1012	1017	1027	1030	1031
MAR	986	990	1001	1010	1016	1022	1028	1031	1032
APR	990	993	996	1008	1016	1023	1029	1033	1036
MAY	991	993	1000	1009	1015	1021	1028	1032	1035
JUN	978	978	984	1004	1016	1022	1029	1034	1038
JUL	989	989	997	1005	1014	1021	1031	1037	1038
AUG	975	976	987	1003	1013	1019	1029	1031	1033
SEP	983	988	997	1007	1013	1018	1029	1030	1031
OCT	975	978	991	1004	1012	1018	1025	1030	1031
NOV	990	993	995	1006	1011	1017	1028	1030	1031
DEC	989	991	996	1004	1013	1017	1025	1027	1030

PERIOD: (PRIMARY) 1886-1968  
(OVER-ALL) 1856-1968

JANUARY

AREA 0011 TASMANIA WEST  
43.25 144.0E

TABLE 1

PERCENT FREQUENCY OF WEATHER OCCURRENCE BY WIND DIRECTION

WIND DIR	PRECIPITATION TYPE							OTHER WEATHER PHENOMENA							
	RAIN	RAIN SHWR	DRZL	FRZG PCPN	SNOW	OTHER FRZN PCPN	HAIL	PCPN AT DB TIME	PCPN PAST HOUR	THDR LTNG	FOG	FOG WD PCPN	SMOKE HAZE	SPRAY BLWG DUST	NO SIG WEA
N	7.8	3.1	10.9	.0	.0	.0	.0	21.7	.0	4.7	7.8	.0	.0	.0	69.0
NE	4.3	.0	2.2	.0	.0	.0	.0	6.5	.0	2.2	15.1	.0	.0	.0	76.3
E	1.4	.0	.0	.0	.0	.0	.0	1.4	.0	.0	.0	.0	.0	.0	98.6
SE	.0	3.9	3.0	.0	.0	.0	.0	8.9	.0	.0	4.9	.0	.0	.0	88.2
S	.0	10.8	4.5	.0	.0	.0	.0	15.3	.0	.0	5.4	.0	.0	.0	79.3
SW	2.2	4.3	1.6	.0	.0	.0	.0	8.1	.0	.0	10.8	.0	.0	.0	81.1
W	2.6	10.3	12.8	.0	.0	.0	.0	25.6	.0	.0	3.8	.0	.0	.0	70.5
NW	9.1	7.6	3.8	.0	.0	.0	.0	20.5	.0	3.0	3.8	.0	.0	.0	72.6
VAR	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
CALM	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	100.0
TOT PCT	3.7	5.3	4.7	.0	.0	.0	.0	13.7	.0	1.2	5.9	.0	.0	.0	79.5
TOT OBS:	322														

TABLE 2

PERCENT FREQUENCY OF WEATHER OCCURRENCE BY HOUR

HOUR (GMT)	PRECIPITATION TYPE							OTHER WEATHER PHENOMENA							
	RAIN	RAIN SHWR	DRZL	FRZG PCPN	SNOW	OTHER FRZN PCPN	HAIL	PCPN AT DB TIME	PCPN PAST HOUR	THDR LTNG	FOG	FOG WD PCPN	SMOKE HAZE	SPRAY BLWG DUST	NO SIG WEA
00003	4.4	4.4	1.5	.0	.0	.0	.0	10.3	.0	.0	5.9	.0	.0	.0	83.8
06009	2.7	5.4	5.4	.0	.0	.0	.0	13.5	.0	.0	5.4	.0	.0	.0	81.1
12015	.0	4.4	5.9	.0	.0	.0	.0	10.3	.0	1.5	4.4	.0	.0	.0	83.8
18021	6.1	5.1	4.1	.0	.0	.0	.0	15.3	.0	3.1	8.2	.0	.0	.0	74.5
TOT PCT	3.5	4.9	4.3	.0	.0	.0	.0	12.8	.0	1.2	6.1	.0	.0	.0	80.3
TOT OBS:	345														

TABLE 3

PERCENTAGE FREQUENCY OF WIND DIRECTION BY SPEED AND BY HOUR

WIND DIR	WIND SPEED (KNOTS)							TOTAL OBS	PCT FREQ	MEAN SPD	HOUR (GMT)							
	0-3	4-10	11-21	22-33	34-47	48+					00	03	06	09	12	15	18	21
N	.7	3.2	4.1	2.1	.3	.0		10.3	15.0		15.0	8.0	7.3	5.9	13.2	8.8	14.5	17.4
NE	.1	3.6	1.8	1.7	.0	.0		7.2	13.4		11.7	5.6	5.6	5.9	2.6	9.8	9.1	8.7
E	1.3	5.6	4.1	.1	.0	.0		11.2	9.2		5.0	10.5	12.1	13.7	10.5	10.8	4.5	13.0
SE	.9	7.5	5.3	.0	.0	.0		13.6	9.8		3.3	9.3	15.3	19.6	7.9	19.6	13.2	12.0
S	1.4	4.0	2.4	.5	.0	.0		8.2	9.8		13.3	8.0	5.6	8.8	17.1	8.8	7.3	6.5
SW	.7	3.3	7.4	3.6	.0	.0		14.9	15.6		20.0	19.8	18.5	7.8	11.8	10.8	10.0	16.3
W	.8	4.9	7.0	.9	.3	.0		13.8	13.4		6.7	14.8	12.9	14.7	21.1	19.6	10.9	8.7
NW	.5	3.3	12.7	3.7	.3	.0		20.5	16.4		15.0	24.1	22.6	23.5	15.8	11.8	23.6	17.4
VAR	.0	.0	.0	.0	.0	.0		.0	.0		.0	.0	.0	.0	.0	.0	.0	.0
CALM	.3							.3	.0		.0	.0	.0	.0	.0	.0	1.8	.0
TOT OBS	25	134	170	48	3	0	380		13.2		15	81	62	51	19	51	55	45
TOT PCT	6.6	35.3	44.7	12.6	.8	.0		100.0			100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0

TABLE 3A

WIND DIR	WIND SPEED (KNOTS)					TOTAL OBS	PCT FREQ	MEAN SPD	HOUR (GMT)				
	0-6	7-16	17-27	28-40	41+				00	06	12	18	21
N	2.5	2.9	3.8	1.2	.0		10.3	15.0	9.1	6.6	10.0	15.8	
NE	2.2	2.6	1.6	.8	.0		7.2	13.4	6.5	5.8	7.9	8.9	
E	4.5	5.3	1.2	.1	.0		11.2	9.2	9.6	12.8	10.7	11.1	
SE	4.3	7.2	2.1	.0	.0		13.6	9.8	8.3	17.3	16.4	12.6	
S	3.5	2.8	1.6	.3	.0		8.2	9.8	8.9	7.1	11.1	6.9	
SW	2.2	5.3	6.5	.9	.0		14.9	15.6	21.4	13.7	11.1	12.9	
W	2.1	6.8	8.9	.9	.0		13.8	13.4	13.5	13.7	20.0	9.8	
NW	1.2	7.9	9.8	1.6	.0		20.5	16.4	22.7	23.0	12.9	20.8	
VAR	.0	.0	.0	.0	.0		.0	.0	.0	.0	.0	.0	
CALM	.3						.3	.0	.0	.0	.0	1.0	
TOT OBS	67	155	116	22	0	380		13.2	96	113	70	101	
TOT PCT	22.9	40.8	30.5	5.8	.0		100.0		100.0	100.0	100.0	100.0	



JANUARY

PERIOD: (PRIMARY) 1886-1968  
(OVERALL) 1856-1968AREA 0011 TASMANIA WEST  
43.25 144.0E

TABLE 4

PERCENTAGE FREQUENCY OF WIND SPEED BY HOUR (GMT)

HOUR	CALM	1-3	4-10	WIND SPEED (KNOTS)			48+	MEAN	PCT FREQ	TOTAL OBS
				11-21	22-33	34-47				
00003	.0	5.2	32.3	49.0	12.5	1.0	.0	13.9	100.0	96
06009	.0	5.3	31.9	47.8	14.2	.9	.0	13.8	100.0	113
12015	.0	7.1	42.9	42.9	7.1	.0	.0	11.7	100.0	70
18021	1.0	7.9	36.6	38.6	14.9	1.0	.0	12.9	100.0	101
TOT	1	24	134	170	48	3	0	13.2		380
PCT	.3	6.3	35.3	44.7	12.6	.8	.0		100.0	

TABLE 5

PCT FREQ OF TOTAL CLOUD AMOUNT (EIGHTHS)  
BY WIND DIRECTION

WIND DIR	0-2	3-4	5-7	8 & OBSCD	TOTAL OBS	MEAN CLOUD COVER
N	.0	4.4	.0	1.7		4.3
NE	.6	.0	2.2	.0		5.8
E	14.4	2.2	2.2	.0		1.9
SE	6.1	.0	.0	.0		1.0
S	5.6	.0	2.2	1.7		3.1
SW	6.7	4.4	8.9	2.8		4.3
W	.0	6.7	.0	11.1		6.2
NW	2.2	2.2	.0	9.4		6.2
VAR	.0	.0	.0	.0		.0
CALM	2.2	.0	.0	.0		1.0
TOT OBS	17	9	7	12	45	4.1
TOT PCT	37.8	20.0	15.6	26.7	100.0	

TABLE 6

PERCENTAGE FREQUENCY OF CEILING HEIGHTS (FT, NH >4/8)  
AND OCCURRENCE OF NH <5/8 BY WIND DIRECTION

	000	150	300	600	1000	2000	3500	5000	6500	8000+	NH <5/8 ANY HGT	TOTAL OBS
	149	299	599	999	1999	3499	4999	6499	7999			
N	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	1.7	4.4
NE	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	2.8
E	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	18.9
SE	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	6.1
S	.0	.0	.0	.0	1.7	.0	.0	.0	.0	.0	.0	7.8
SW	.0	.0	.0	.0	.6	4.4	.0	2.2	.0	.0	.0	15.6
W	.0	.0	.0	2.2	4.4	.0	4.4	.0	.0	.0	.0	6.7
NW	.0	.0	2.2	4.4	2.2	.0	.0	.0	.0	.6	.0	4.4
VAR	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
CALM	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	2.2
TOT OBS	0	0	1	3	4	2	2	1	0	1	81	45
TOT PCT	.0	.0	2.2	6.7	8.9	4.4	4.4	2.2	.0	2.2	68.9	100.0

TABLE 7

CUMULATIVE PCT FREQ OF SIMULTANEOUS OCCURRENCE  
OF CEILING HEIGHT (NH >4/8) AND VSBY (NM)

CEILING (FEET)	VSBY (NM)							
	>10	>5	>2	>1	>1/2	>1/4	>50YD	>0
>6500	2.2	2.2	2.2	2.2	2.2	2.2	2.2	2.2
>6000	2.2	4.3	4.3	4.3	4.3	4.3	4.3	4.3
>3500	6.5	8.7	8.7	8.7	8.7	8.7	8.7	8.7
>2000	10.9	13.0	13.0	13.0	13.0	13.0	13.0	13.0
>1000	19.6	21.7	21.7	21.7	21.7	21.7	21.7	21.7
>600	21.7	26.1	28.3	28.3	28.3	28.3	28.3	28.3
>300	21.7	28.3	30.4	30.4	30.4	30.4	30.4	30.4
>150	21.7	28.3	30.4	30.4	30.4	30.4	30.4	30.4
>0	21.7	28.3	30.4	30.4	30.4	30.4	30.4	30.4
TOTAL	10	13	14	14	14	14	14	14

TOTAL NUMBER OF OBS: 46

PCT FREQ NH &lt;5/8: 69.6

TABLE 7A

PERCENTAGE FREQ OF LOW CLOUDS (EIGHTHS)

	0	1	2	3	4	5	6	7	8	OBSCD	TOTAL OBS
	26.1	17.4	10.9	8.7	6.5	2.2	8.7	.0	19.6	.0	46

PERIOD: (PRIMARY) 1886-1968  
(OVER-ALL) 1856-1968

JANUARY

AREA 0011 TASMANIA WEST  
43.25 144.0E

TABLE 8

PERCENT FREQ OF WIND DIRECTION VS OCCURRENCE OR NON-OCCURRENCE OF  
PRECIPITATION WITH VARYING VALUES OF VISIBILITY

VSRY (NM)		N	NE	E	SE	S	SW	W	NW	VAR	CALM	PCT	TOTAL OBS
<1/2	PCP	.0	.0	.0	.3	.0	.0	.0	.0	.0	.0	.3	
	NO PCP	.3	.0	.0	.0	.0	.3	.0	.0	.0	.0	.6	
	TOT %	.3	.0	.0	.3	.0	.3	.0	.0	.0	.0	.9	
1/2<1	PCP	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
	NO PCP	.6	1.2	.0	.8	.5	1.2	.5	.8	.0	.0	5.6	
	TOT %	.6	1.2	.0	.8	.5	1.2	.5	.8	.0	.0	5.6	
1<2	PCP	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
	NO PCP	.0	.0	.0	.0	.0	.3	.0	.0	.0	.0	.3	
	TOT %	.0	.0	.0	.0	.0	.3	.0	.0	.0	.0	.3	
2<5	PCP	.0	.0	.0	.0	.0	.0	.3	.0	.0	.0	.3	
	NO PCP	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
	TOT %	.0	.0	.0	.0	.0	.0	.3	.0	.0	.0	.3	
5<10	PCP	2.2	.5	.2	.8	1.1	1.1	2.5	3.6	.0	.0	11.8	
	NO PCP	6.2	5.0	8.4	12.0	5.5	8.5	6.1	14.8	.0	.0	66.5	
	TOT %	8.4	5.4	8.5	12.7	6.7	9.6	8.5	18.3	.0	.0	78.3	
10+	PCP	.0	.0	.0	.0	.2	.1	.6	.3	.0	.0	1.2	
	NO PCP	.7	.5	2.6	1.9	1.2	2.8	2.5	.7	.0	.3	13.4	
	TOT %	.7	.5	2.6	1.9	1.5	2.9	3.1	1.0	.0	.3	14.6	
TOT OBS													322
TOT PCT		10.0	7.2	11.2	15.8	8.6	14.4	12.1	20.4	.0	.3	100.0	

TABLE 9

PERCENT FREQ OF WIND DIRECTION VS WIND SPEED  
WITH VARYING VALUES OF VISIBILITY

VSRY (NM)	SPD KTS	N	NE	E	SE	S	SW	W	NW	VAR	CALM	PCT	TOTAL OBS
<1/2	0-3	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
	4-10	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
	11-21	.3	.0	.0	.3	.0	.3	.0	.0	.0	.0	.9	
	22+	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
	TOT %	.3	.0	.0	.3	.0	.3	.0	.0	.0	.0	.9	
1/2<1	0-3	.0	.0	.0	.0	.2	.2	.0	.0	.0	.0	.3	
	4-10	.6	.6	.0	.3	.0	.0	.3	.0	.0	.0	1.9	
	11-21	.0	.0	.0	.5	.3	1.1	.2	.8	.0	.0	2.8	
	22+	.0	.6	.0	.0	.0	.0	.0	.0	.0	.0	.6	
	TOT %	.6	1.2	.0	.8	.5	1.2	.5	.8	.0	.0	5.6	
1<2	0-3	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
	4-10	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
	11-21	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
	22+	.0	.0	.0	.0	.0	.3	.0	.0	.0	.0	.3	
	TOT %	.0	.0	.0	.0	.0	.3	.0	.0	.0	.0	.3	
2<5	0-3	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
	4-10	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
	11-21	.0	.0	.0	.0	.0	.0	.0	.3	.0	.0	.3	
	22+	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
	TOT %	.0	.0	.0	.0	.0	.0	.0	.3	.0	.0	.3	
5<10	0-3	.8	.2	1.2	.9	.6	.3	.6	.6	.0	.0	5.3	
	4-10	3.0	2.6	4.7	6.4	3.6	2.2	3.4	3.7	.0	.0	29.5	
	11-21	3.0	1.7	2.5	5.4	2.2	3.9	3.9	11.3	.0	.0	33.9	
	22+	1.7	.9	.2	.0	.3	3.3	.6	2.6	.0	.0	9.6	
	TOT %	8.4	5.4	8.5	12.7	6.7	9.6	8.5	18.3	.0	.0	78.3	
10+	0-3	.0	.0	.0	.1	.5	.0	.0	.0	.0	.3	.9	
	4-10	.0	.3	1.2	1.9	.7	.3	.6	.0	.0	.0	5.0	
	11-21	.7	.2	1.5	.0	.0	1.9	2.2	1.0	.0	.0	7.5	
	22+	.0	.0	.0	.0	.2	.7	.3	.0	.0	.0	1.2	
	TOT %	.7	.5	2.6	1.9	1.5	2.9	3.1	1.0	.0	.3	14.6	
TOT OBS													322
TOT PCT		10.0	7.2	11.2	15.8	8.6	14.4	12.1	20.4	.0	.3	100.0	

JANUARY

PERIOD: (PRIMARY) 1886-1968  
(OVER-ALL) 1856-1968AREA 0011 TASMANIA WEST  
43.25 144.0E

TABLE 10

PERCENT FREQUENCY OF CEILING HEIGHTS (FEET, NH > 4/8) AND  
OCCURRENCE OF NH < 5/8 BY HOUR

HOURL (GMT)	000 149	150 299	300 599	600 999	1000 1999	2000 3499	3500 4999	5000 6499	6500 7999	8000+	TOTAL	NH < 5/8 ANY HGT	TOTAL OBS
00003	.0	.0	.0	.0	.0	12.5	.0	12.5	.0	12.5	37.5	62.5	8
06009	.0	.0	.0	.0	7.7	.0	.0	.0	.0	.0	7.7	92.3	13
12015	.0	.0	.0	7.7	23.1	.0	7.7	.0	.0	.0	38.5	61.5	13
18021	.0	.0	8.3	16.7	.0	8.3	8.3	.0	.0	.0	41.7	58.3	12
TOT	0	0	1	3	4	2	2	1	0	1	14	32	46
PCT	.0	.0	2.2	6.5	8.7	4.3	4.3	2.2	.0	2.2	30.4	69.6	100.0

TABLE 11

PERCENT FREQUENCY VS BY (NM) BY HOUR

HOURL (GMT)	<1/2	1/2<1	1<2	2<5	5<10	10+	TOTAL OBS
00003	.0	5.9	.0	.0	80.9	13.2	68
06009	.0	5.4	.0	.0	81.1	13.5	111
12015	.0	4.4	1.5	.0	75.0	19.1	68
18021	3.1	7.1	.0	1.0	75.5	13.3	98
TOT	3	20	1	1	270	50	345
PCT	.9	5.8	.3	.3	78.3	14.5	100.0

TABLE 12

CUMULATIVE PCT FREQ OF RANGES OF VS BY (NM) AND/OR  
CEILING HGT (FEET, NH > 4/8), BY HOUR

HOURL (GMT)	<150 <50YD	<600 <1	<1000 <5	1000+ AND 5+	NH < 5/8 AND 5+	TOTAL OBS
00003	.0	.0	.0	37.5	62.5	8
06009	.0	.0	.0	7.7	92.3	13
12015	.0	.0	7.7	30.8	61.5	13
18021	.0	8.3	25.0	16.7	58.3	12
TOT	0	1	4	10	32	46
PCT	.0	2.2	8.7	21.7	69.6	100.0

TABLE 13

PERCENT FREQUENCY OF RELATIVE HUMIDITY BY TEMP

TEMP F	0-29	30-39	40-49	50-59	60-69	70-79	80-89	90-100	TOTAL OBS	PCT FREQ
60/64	.0	.0	.0	.0	2.3	6.8	2.3	.0	5	11.4
55/59	.0	.0	.0	.0	4.5	13.6	27.3	15.9	27	61.4
50/54	.0	.0	.0	2.3	4.5	11.4	4.5	4.5	12	27.3
TOTAL	0	0	0	1	5	14	15	9	44	100.0
PCT	.0	.0	.0	2.3	11.4	31.8	34.1	20.5		

TABLE 14

PERCENT FREQUENCY OF WIND DIRECTION BY TEMP

	N	NE	E	SE	S	SW	W	NW	VAR	CALM
60/64	5.1	1.1	2.3	.6	1.7	.0	.0	.6	.0	.0
55/59	2.3	2.8	17.0	5.7	4.0	6.8	15.9	6.8	.0	.0
50/54	.0	.0	.0	.0	4.0	16.5	2.3	2.3	.0	2.3
TOTAL	7.4	4.0	19.3	6.3	9.7	23.3	18.2	9.7	.0	2.3

TABLE 15

MEANS, EXTREMES AND PERCENTILES OF TEMP (DEG F) BY HOUR

HOURL (GMT)	MAX	99%	95%	50%	5%	1%	MIN	MEAN	TOTAL OBS
00003	73	72	65	59	53	52	52	58.3	99
06009	70	69	65	58	51	50	50	58.4	119
12015	64	63	52	56	51	50	50	56.3	74
18021	66	64	52	57	51	51	51	56.6	111
TOT	73	69	64	57	52	50	50	57.5	403

TABLE 16

PERCENT FREQUENCY OF RELATIVE HUMIDITY BY HOUR

HOURL (GMT)	0-29	30-39	40-49	50-59	60-69	70-79	80-89	90-100	MEAN	TOTAL OBS
00003	.0	11.1	11.1	33.3	22.2	22.2	79			9
06009	.0	.0	26.7	40.0	26.7	6.7	76			15
12015	.0	.0	.0	27.3	45.5	27.3	85			11
18021	.0	.0	.0	27.3	45.5	27.3	84			11
TOT	0	1	5	15	16	9	81			46

PERIOD: (PRIMARY) 1886-1968  
(OVER-ALL) 1856-1968

JANUARY

AREA 0011 TASMANIA WEST  
43.25 144.0E

TABLE 17

PCT FREQ OF AIR TEMPERATURE (DEG F) AND THE OCCURRENCE OF FOG (WITHOUT PRECIPITATION)  
VS AIR-SEA TEMPERATURE DIFFERENCE (DEG F)

AIR-SEA	49	53	57	61	65	69	TOT	W	WD
TMP DIF	52	56	60	64	68	72		FOG	FOG
11/13	.0	.0	.0	.0	.0	.7	2	.0	.7
9/10	.0	.0	.0	.0	.4	.0	1	.0	.4
7/8	.0	.0	.0	.4	.4	.4	3	.0	1.1
6	.0	.0	.0	.0	.7	.0	2	.4	.4
5	.0	.0	.4	1.8	.4	.0	7	.0	2.5
4	.0	.0	.7	2.1	.4	.0	9	.4	2.8
3	.0	.7	5.3	2.8	.4	.0	26	.4	8.9
2	.0	.7	6.0	2.1	.0	.0	25	.4	8.5
1	.0	3.5	8.2	1.8	.0	.0	38	1.1	12.4
0	.0	9.2	7.4	2.1	.0	.0	53	.7	18.1
-1	.4	11.3	4.3	1.4	.0	.0	49	.7	16.7
-2	2.1	7.1	3.5	.0	.0	.0	36	.7	12.1
-3	1.1	4.6	1.4	.0	.0	.0	20	.0	7.1
-4	1.8	.4	.0	.0	.0	.0	6	.4	1.8
-5	1.4	.0	.0	.0	.0	.0	4	.0	1.4
-6	.0	.0	.4	.0	.0	.0	1	.0	.4
TOTAL	19	106	41	3	282	100.0	5.0	95.0	
PCT	6.7	37.6	37.6	14.5	2.5	1.1			

PERIOD: (OVER-ALL) 1963-1968

TABLE 18

PCT FREQ OF WIND SPEED (KTS) AND DIRECTION VERSUS SEA HEIGHTS (FT)

HGT	1-3	4-10	11-21	22-33	34-47	48+	PCT	1-3	4-10	11-21	22-33	34-47	48+	PCT
<1	.0	.0	.0	.0	.0	.0	.0	.0	2.9	.0	.0	.0	.0	2.9
1-2	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
3-4	.0	.0	2.9	.0	.0	.0	2.9	.0	.0	.0	.0	.0	.0	.0
5-6	.0	.0	2.2	.0	.0	.0	2.2	.0	.0	.0	.0	.0	.0	.0
7	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
8-9	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
10-11	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
12	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
13-16	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
17-19	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
20-22	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
23-25	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
26-32	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
33-40	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
41-48	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
49-60	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
61-70	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
71-86	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
87+	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
TOT PCT	.0	.0	5.1	.0	.0	.0	5.1	.0	2.9	.7	.0	.0	.0	3.7

HGT	1-3	4-10	11-21	22-33	34-47	48+	PCT	1-3	4-10	11-21	22-33	34-47	48+	PCT
<1	.0	11.0	.0	.0	.0	.0	11.0	.0	7.4	.0	.0	.0	.0	7.4
1-2	.0	.0	11.0	.0	.0	.0	11.0	.0	.0	.0	.0	.0	.0	.0
3-4	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
5-6	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
7	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
8-9	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
10-11	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
12	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
13-16	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
17-19	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
20-22	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
23-25	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
26-32	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
33-40	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
41-48	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
49-60	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
61-70	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
71-86	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
87+	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
TOT PCT	.0	11.0	11.0	.0	.0	.0	22.1	.0	7.4	.0	.0	.0	.0	7.4

PERIOD: (OVER-ALL) 1963-1968

JANUARY

AREA 0011 TASMANIA WEST  
43.2S 144.0E

TABLE 18 (CONT)

PCT FREQ OF WIND SPEED (KTS) AND DIRECTION VERSUS SEA HEIGHTS (FT)

HGT	S							SW							PCT
	1-3	4-10	11-21	22-33	34-47	48+	PCT	1-3	4-10	11-21	22-33	34-47	48+	PCT	
<1	2.9	5.1	.0	.0	.0	.0	8.1	.0	.0	.0	.0	.0	.0	.0	.0
1-2	.0	.0	.0	.0	.0	.0	.0	.0	.0	2.9	.0	.0	.0	.0	2.9
3-4	.0	.0	.0	.0	.0	.0	.0	.0	.0	8.8	.0	.0	.0	.0	8.8
5-6	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
7	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	2.9	.0	.0	.0	2.9
8-9	.0	.0	.0	2.2	.0	.0	2.2	.0	.0	.0	3.7	.0	.0	.0	3.7
10-11	.0	.0	.0	.0	.0	.0	.0	.0	.0	2.9	2.9	.0	.0	.0	5.9
12	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
13-16	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
17-19	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
20-22	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
23-25	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
26-32	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
33-40	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
41-48	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
49-60	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
61-70	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
71-86	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
87+	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
TOT PCT	2.9	5.1	.0	2.2	.0	.0	10.3	.0	.0	14.7	9.6	.0	.0	.0	24.3

HGT	W							NW							PCT	TOTAL PCT
	1-3	4-10	11-21	22-33	34-47	48+	PCT	1-3	4-10	11-21	22-33	34-47	48+	PCT		
<1	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
1-2	.0	.0	2.9	.0	.0	.0	2.9	.0	.0	.0	.0	.0	.0	.0	.0	.0
3-4	.0	2.9	.0	.0	.0	.0	2.9	.0	2.9	2.9	.0	.0	.0	.0	5.9	.0
5-6	.0	.0	5.9	.0	.0	.0	5.9	.0	.0	.7	.0	.0	.0	.0	.7	.0
7	.0	.0	.0	.0	.0	.0	.0	.0	.0	2.9	.0	.0	.0	.0	2.9	.0
8-9	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
10-11	.0	.0	.0	2.9	.0	.0	2.9	.0	.0	.0	.0	.0	.0	.0	.0	.0
12	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
13-16	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
17-19	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
20-22	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
23-25	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
26-32	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
33-40	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
41-48	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
49-60	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
61-70	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
71-86	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
87+	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
TOT PCT	.0	2.9	8.8	2.9	.0	.0	14.7	.0	2.9	6.6	.0	.0	.0	.0	9.6	97.1

WIND SPEED (KTS) VS SEA HEIGHT (FT)

HGT	0-3	4-10	11-21	22-33	34-47	48+	PCT	TOT OBS
<1	5.9	26.8	.0	.0	.0	.0	32.4	
1-2	.0	.0	17.6	.0	.0	.0	17.6	
3-4	.0	5.9	14.7	.0	.0	.0	20.6	
5-6	.0	.0	8.8	.0	.0	.0	8.8	
7	.0	.0	2.9	2.9	.0	.0	5.9	
8-9	.0	.0	.0	5.9	.0	.0	5.9	
10-11	.0	.0	2.9	5.9	.0	.0	8.8	
12	.0	.0	.0	.0	.0	.0	.0	
13-16	.0	.0	.0	.0	.0	.0	.0	
17-19	.0	.0	.0	.0	.0	.0	.0	
20-22	.0	.0	.0	.0	.0	.0	.0	
23-25	.0	.0	.0	.0	.0	.0	.0	
26-32	.0	.0	.0	.0	.0	.0	.0	
33-40	.0	.0	.0	.0	.0	.0	.0	
41-48	.0	.0	.0	.0	.0	.0	.0	
49-60	.0	.0	.0	.0	.0	.0	.0	
61-70	.0	.0	.0	.0	.0	.0	.0	
71-86	.0	.0	.0	.0	.0	.0	.0	
87+	.0	.0	.0	.0	.0	.0	.0	
TOT PCT	5.9	32.4	47.1	14.7	.0	.0	100.0	34

PERIOD: (OVER-ALL) 1964-1968

TABLE 19

PERCENT FREQUENCY OF WAVE HEIGHT (FT) VS WAVE PERIOD (SECONDS)

PERIOD (SEC)	<1	1-2	3-4	5-6	7	8-9	10-11	12	13-16	17-19	20-22	23-25	26-32	33-40	41-48	49-60	61-70	71-86	87+	TOTAL	MEAN HGT	
<6	.0	.0	2.8	.0	2.8	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	2	5
6-7	.0	.0	.0	.0	.0	.0	8.3	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	8	10
8-9	.0	.0	.0	2.8	5.6	8.3	2.8	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	7	8
10-11	.0	.0	.0	5.6	19.4	2.8	.0	2.8	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	11	7
12-13	.0	.0	.0	.0	11.1	2.8	5.6	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	7	8
13-14	.0	.0	.0	.0	.0	.0	.0	11.1	2.8	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	5	11
14-15	.0	.0	.0	2.8	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	1	5
TOTAL	.0	.0	1	4	14	5	6	5	1	0	0	0	0	0	0	0	0	0	0	0	36	8
PCT	.0	.0	2.8	11.1	38.9	13.9	16.7	13.9	2.8	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	100.0	



PERIOD: (PRIMARY) 1885-1968  
(OVER-ALL) 1858-1968

# FEBRUARY

AREA 0011 TASMANIA WEST  
43.35 144.0E

TABLE 1

## PERCENT FREQUENCY OF WEATHER OCCURRENCE BY WIND DIRECTION

WIND DIR	PRECIPITATION TYPE							OTHER WEATHER PHENOMENA							
	RAIN	RAIN SHWR	DRZL	FRZG PCPN	SNOW	OTHER FRZN PCPN	HAIL	PCPN AT DB TIME	PCPN PAST HOUR	THOR LTNG	FOG PCPN	FOG WD PCPN PAST HR	SMOKE HAZE	SPRAY BLWG DUST BLWG SNOW	NO SIG WEA
N	1.9	3.8	1.9	.0	.0	.0	.0	7.5	.0	.0	24.4	.0	2.8	.0	65.3
NE	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	33.3	.0	20.5	.0	46.2
E	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	15.9	.0	12.7	.0	71.4
SE	4.9	.0	4.9	.0	.0	.0	.0	9.8	.0	.0	.0	.0	.0	.0	90.2
S	26.5	2.4	.0	.0	.0	.0	.0	28.9	.0	.0	4.8	.0	.0	.0	66.3
SW	1.8	28.8	.0	.0	.0	.0	.0	30.6	3.6	.0	7.2	.0	.0	.0	58.6
W	3.7	15.0	.0	.0	.0	.0	.0	18.7	.0	1.9	3.7	.0	.0	.0	75.7
NW	.0	7.5	2.1	.0	.0	.0	.0	9.6	.0	1.1	4.3	.0	5.3	.0	79.7
VAR	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
CALM	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
TOT PCT	3.9	7.8	1.3	.0	.0	.0	.0	13.0	.4	.4	12.1	.0	4.3	.0	69.7
TOT OBS:	231														

TABLE 2

## PERCENT FREQUENCY OF WEATHER OCCURRENCE BY HOUR

HOUR (GMT)	PRECIPITATION TYPE							OTHER WEATHER PHENOMENA							
	RAIN	RAIN SHWR	DRZL	FRZG PCPN	SNOW	OTHER FRZN PCPN	HAIL	PCPN AT DB TIME	PCPN PAST HOUR	THOR LTNG	FOG PCPN	FOG WD PCPN PAST HR	SMOKE HAZE	SPRAY BLWG DUST BLWG SNOW	NO SIG WEA
00003	7.0	4.7	.0	.0	.0	.0	.0	11.6	2.3	.0	9.3	.0	7.0	.0	67.4
06009	4.0	9.3	2.7	.0	.0	.0	.0	16.0	.0	2.3	13.3	.0	6.7	.0	64.0
12015	6.0	8.0	.0	.0	.0	.0	.0	14.0	.0	.0	6.0	.0	2.0	.0	78.0
18021	.0	7.4	1.5	.0	.0	.0	.0	8.8	.0	.0	16.2	.0	1.5	.0	73.5
TOT PCT	3.8	7.6	1.3	.0	.0	.0	.0	12.7	.4	.4	11.9	.0	4.2	.0	70.3
TOT OBS:	236														

TABLE 3

## PERCENTAGE FREQUENCY OF WIND DIRECTION BY SPEED AND BY HOUR

WIND DIR	WIND SPEED (KNOTS)							48+	TOTAL DBS	PCT FREQ	MEAN SPD	HOUR (GMT)						
	0-3	4-10	11-21	22-33	34-47	00	03					06	09	12	15	18	21	
N	1.7	8.6	8.2	2.8	.0	.0		21.2	13.0		13.6	23.9	21.6	17.9	17.9	20.0	17.4	29.7
NE	1.0	2.8	3.3	1.7	.0	.0		8.7	13.0		9.1	9.2	6.4	9.0	7.1	12.2	8.1	7.8
E	2.0	3.0	1.9	.2	.0	.0		7.0	8.2		4.5	8.8	5.4	9.0	.0	3.3	10.5	7.8
SE	.7	2.8	4.0	.3	.0	.0		7.8	12.2		13.6	4.4	6.9	7.7	7.1	10.0	10.5	7.8
S	1.0	3.2	3.5	.8	.3	.0		8.8	13.3		15.9	11.0	13.2	6.4	16.1	8.9	3.5	1.6
SW	.5	2.6	5.9	2.8	1.7	.0		13.4	19.1		15.9	18.4	9.3	7.7	19.6	11.1	14.0	15.6
W	.3	3.9	5.1	1.8	2.3	.0		13.4	18.8		13.6	11.8	10.8	20.5	17.9	14.4	14.5	7.8
NW	.8	8.8	5.8	2.8	.7	.0		18.9	14.0		13.6	11.0	24.5	21.8	14.3	20.0	21.5	21.2
VAR	.0	.0	.0	.0	.0	.0		.0	.0		.0	.0	.0	.0	.0	.0	.0	.0
CALM	.7							.7	.0		.0	1.5	2.0	.0	.0	.0	.0	.0
TOT DBS	26	108	114	40	15	0	303		14.3		11	68	51	39	14	45	43	32
TOT PCT	8.6	35.6	37.6	13.2	5.0	.0		100.0			100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0

TABLE 3A

WIND DIR	WIND SPEED (KNOTS)					TOTAL DBS	PCT FREQ	MEAN SPD	HOUR (GMT)				
	0-6	7-16	17-27	28-40	41+				00 03	06 09	12 15	18 21	
N	3.5	10.6	5.9	1.2	.0		21.2	13.0	22.5	20.0	19.5	22.7	
NE	1.8	4.1	2.5	.3	.0		8.7	13.0	9.2	7.5	11.0	8.0	
E	3.3	2.7	1.0	.0	.0		7.0	8.2	8.2	6.9	2.5	9.3	
SE	1.5	3.8	2.5	.0	.0		7.8	12.2	5.7	7.2	9.3	9.3	
S	1.3	5.1	1.4	1.0	.0		8.8	13.3	11.7	10.3	10.6	2.7	
SW	.5	4.8	5.5	2.1	.5		13.4	19.1	18.0	8.6	13.1	14.7	
W	1.5	4.9	4.3	1.7	1.2		13.4	18.8	12.0	15.0	15.3	11.7	
NW	2.8	9.2	5.0	2.0	.0		18.9	14.0	11.4	23.3	18.6	21.7	
VAR	.0	.0	.0	.0	.0		.0	.0	.0	.0	.0	.0	
CALM	.7						.7	.0	1.3	1.1	.0	.0	
TOT DBS	51	137	85	25	5	303		14.3	79	90	59	75	
TOT PCT	16.8	45.2	28.1	8.3	1.7		100.0		100.0	100.0	100.0	100.0	

PERIOD: (PRIMARY) 1885-1968  
(OVER-ALL) 1858-1968

FEBRUARY

AREA 0011 TASMANIA WEST  
43.35 144.0E

TABLE 4

PERCENTAGE FREQUENCY OF WIND SPEED BY HOUR (GMT)

HOUR	CALM	1-3	4-10	WIND SPEED (KNOTS)			48+	MEAN	PCT FREQ	TOTAL OBS
				11-21	22-33	34-47				
00003	1.3	8.9	34.2	35.4	13.9	6.3	.0	14.5	100.0	79
06009	1.1	6.7	36.7	36.7	13.3	5.6	.0	14.6	100.0	90
12015	.0	6.6	35.6	40.7	10.2	6.8	.0	14.8	100.0	59
18021	.0	9.3	36.0	38.7	14.7	1.3	.0	13.4	100.0	75
TOT	2	24	108	114	40	15	.0	14.3		303
PCT	.7	7.9	35.6	37.6	13.2	5.0	.0		100.0	

TABLE 5

PCT FREQ OF TOTAL CLOUD AMOUNT (EIGHTHS)  
BY WIND DIRECTION

WIND DIR	0-2	3-4	5-7	8-6	TOTAL OBS	MEAN CLOUD COVER
N	6.9	.0	.0	5.4		3.7
NE	2.8	.0	.7	.0		1.2
E	4.2	.0	2.1	.0		2.6
SE	4.2	.0	.0	5.6		5.2
S	.0	.0	2.1	6.9		7.5
SW	.0	4.2	7.6	2.8		5.9
W	4.9	1.4	6.9	5.6		5.4
NW	10.4	.0	8.3	6.9		4.5
VAR	.0	.0	.0	.0		.0
CALM	.0	.0	.0	.0		.0
TOT OBS	12	2	10	12	36	4.9
TOT PCT	33.3	5.6	27.8	33.3	100.0	

TABLE 6

PERCENTAGE FREQUENCY OF CEILING HEIGHTS (FT, NH >4/8)  
AND OCCURRENCE OF NH <5/8 BY WIND DIRECTION

000	150	300	600	1000	2000	3500	5000	6500	8000+	NH	<5/8	TOTAL
149	299	599	999	1999	3499	4999	6499	7999		ANY	HGT	OBS
.0	.0	2.8	.0	.0	.0	.0	.0	.0	2.8		6.9	
.0	.0	.0	.0	.0	.0	.0	.0	.0	.7		2.8	
.0	.0	.0	.0	.0	.0	.0	.0	.0	2.1		4.2	
.0	.0	.0	5.6	.0	.0	.0	.0	.0	.0		4.2	
.0	.0	.0	4.9	2.1	2.1	.0	.0	.0	.0		.0	
.0	.0	.0	.7	3.5	3.5	.0	.0	.0	.0		6.9	
.0	.0	.0	.0	4.9	5.6	.0	.0	.0	.0		8.3	
.0	.0	.0	.0	11.8	2.8	.0	.0	.0	.0		11.1	
.0	.0	.0	.0	.0	.0	.0	.0	.0	.0		.0	
.0	.0	.0	.0	.0	.0	.0	.0	.0	.0		.0	
.0	.0	1	4	8	5	.0	.0	.0	2		16	
.0	.0	2.8	11.1	22.2	13.9	.0	.0	.0	5.6		44.4	36

TABLE 7

CUMULATIVE PCT FREQ OF SIMULTANEOUS OCCURRENCE  
OF CEILING HEIGHT (NH >4/8) AND VSBY (NM)

CEILING (FEET)	VSBY (NM)							
	# OR >10	# OR >5	# OR >2	# OR >1	# OR >1/2	# OR >1/4	# OR >50YD	# OR >0
# OR >4500	.0	5.3	5.3	5.3	5.3	5.3	5.3	5.3
# OR >4000	.0	5.3	5.3	5.3	5.3	5.3	5.3	5.3
# OR >3500	.0	5.3	5.3	5.3	5.3	5.3	5.3	5.3
# OR >3000	7.9	18.4	18.4	18.4	18.4	18.4	18.4	18.4
# OR >2500	18.4	39.5	39.5	39.5	39.5	39.5	39.5	39.5
# OR >2000	23.7	47.4	50.0	50.0	50.0	50.0	50.0	50.0
# OR >1500	23.7	47.4	52.6	52.6	52.6	52.6	52.6	52.6
# OR >1000	23.7	47.4	52.6	52.6	52.6	52.6	52.6	52.6
# OR >500	23.7	47.4	52.6	52.6	52.6	52.6	52.6	52.6
# OR >0	23.7	47.4	52.6	52.6	52.6	52.6	52.6	52.6
TOTAL	9	18	20	20	20	20	20	20

TOTAL NUMBER OF OBS: 38

PCT FREQ NH <5/8: 47.4

TABLE 7A

PERCENTAGE FREQ OF LOW CLOUDS (EIGHTHS)

	0	1	2	3	4	5	6	7	8	9	TOTAL
											OBS
	17.4	13.0	10.9	2.2	8.7	8.7	10.9	8.7	19.6	.0	46

PERIOD: (PRIMARY) 1885-1968  
(OVER-ALL) 1858-1968

FEBRUARY

AREA 0011 TASMANIA WEST  
43.35 144.0E

TABLE 8

PERCENT FREQ OF WIND DIRECTION VS OCCURRENCE OR NON-OCCURRENCE OF  
PRECIPITATION WITH VARYING VALUES OF VISIBILITY

VSBY (NM)		N	NE	E	SE	S	SW	W	NW	VAR	CALM	PCT	TOTAL DBS
<1/2	PCP	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
	NO PCP	.4	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.4
	TOT %	.4	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.4
1/2<1	PCP	.6	.0	.0	.0	.0	.4	.0	.2	.0	.0	.0	1.3
	NO PCP	5.2	3.2	1.1	.0	.4	.9	.4	1.3	.0	.0	.0	12.6
	TOT %	5.8	3.2	1.1	.0	.4	1.3	.4	1.5	.0	.0	.0	13.9
1<2	PCP	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
	NO PCP	.4	1.7	.9	.0	.0	.0	.0	.9	.0	.0	.0	3.9
	TOT %	.4	1.7	.9	.0	.0	.0	.0	.9	.0	.0	.0	3.9
2<5	PCP	.0	.0	.0	.0	.4	.0	.0	.0	.0	.0	.0	.4
	NO PCP	.4	.0	.0	.0	.0	.0	.3	.1	.0	.0	.0	.9
	TOT %	.4	.0	.0	.0	.4	.0	.3	.1	.0	.0	.0	1.3
5<10	PCP	1.1	.0	.0	.9	2.2	3.2	2.2	1.7	.0	.0	.0	11.3
	NO PCP	11.7	2.9	4.2	5.6	4.5	5.8	7.1	14.7	.0	.0	.0	56.7
	TOT %	12.8	2.9	4.2	6.5	6.7	9.1	9.3	16.5	.0	.0	.0	68.0
10+	PCP	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
	NO PCP	3.1	.5	.6	2.4	1.4	1.6	1.5	1.3	.0	.0	.0	12.6
	TOT %	3.1	.5	.6	2.4	1.4	1.6	1.5	1.3	.0	.0	.0	12.6
TOT DBS													
TOT PCT													
		23.1	8.4	6.8	8.9	9.0	12.0	11.6	20.2	.0	.0	100.0	231

TABLE 9

PERCENT FREQ OF WIND DIRECTION VS WIND SPEED  
WITH VARYING VALUES OF VISIBILITY

VSBY (NM)	SPD KTS	N	NE	E	SE	S	SW	W	NW	VAR	CALM	PCT	TOTAL DBS
<1/2	0-3	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
	4-10	.4	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.4
	11-21	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
	22+	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
	TOT %	.4	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.4
1/2<1	0-3	.6	.2	.4	.0	.0	.4	.0	.0	.0	.0	.0	1.7
	4-10	2.6	1.1	.0	.0	.0	.0	.0	.2	.0	.0	.0	3.9
	11-21	2.4	.9	.4	.0	.4	.4	.6	.0	.0	.0	.0	5.6
	22+	.6	1.1	.2	.0	.0	.4	.0	.6	.0	.0	.0	3.0
	TOT %	6.3	3.2	1.1	.0	.4	1.3	.4	1.5	.0	.0	.0	14.2
1<2	0-3	.0	.0	.0	.0	.0	.0	.0	.4	.0	.0	.0	.4
	4-10	.0	.0	.9	.0	.0	.0	.0	.0	.0	.0	.0	.9
	11-21	.0	1.3	.0	.0	.0	.0	.0	.4	.0	.0	.0	1.7
	22+	.4	.4	.0	.0	.0	.0	.0	.0	.0	.0	.0	.9
	TOT %	.4	1.7	.9	.0	.0	.0	.0	.9	.0	.0	.0	3.9
2<5	0-3	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
	4-10	.4	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.4
	11-21	.0	.0	.0	.0	.4	.0	.3	.1	.0	.0	.0	.9
	22+	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
	TOT %	.4	.0	.0	.0	.4	.0	.3	.1	.0	.0	.0	1.3
5<10	0-3	.4	.4	.4	.9	1.3	.0	.2	.6	.0	.0	.0	5.6
	4-10	5.2	1.3	1.3	2.2	2.8	2.8	3.7	8.8	.0	.0	.0	28.0
	11-21	5.4	1.2	1.2	3.4	2.2	4.7	2.8	4.1	.0	.0	.0	25.0
	22+	1.7	.0	.0	.0	.4	1.5	2.6	2.8	.0	.0	.0	9.1
	TOT %	12.7	2.9	4.2	6.5	6.7	9.1	9.3	16.4	.0	.0	.0	67.7
10+	0-3	.9	.4	.0	.0	.0	.0	.0	.0	.0	.0	.0	1.3
	4-10	1.5	.0	.6	1.5	.3	.1	.3	.8	.0	.0	.0	5.2
	11-21	.8	.1	.0	.4	1.1	.6	1.2	.1	.0	.0	.0	4.3
	22+	.0	.0	.0	.4	.0	.9	.0	.4	.0	.0	.0	1.7
	TOT %	3.1	.5	.6	2.4	1.4	1.6	1.5	1.3	.0	.0	.0	12.5
TOT DBS													
TOT PCT													
		23.4	8.4	6.8	8.8	8.9	12.0	11.5	20.2	.0	.0	100.0	232

## FEBRUARY

PERIOD: (PRIMARY) 1885-1968  
(OVER-ALL) 1858-1968

AREA 0011 TASMANIA WEST  
43.35 144.0E

TABLE 10

PERCENT FREQUENCY OF CEILING HEIGHTS (FEET, NH >4/8) AND  
OCCURRENCE OF NH <5/8 BY HOUR

HOUR (GMT)	000 149	150 299	300 599	600 999	1000 1999	2000 3499	3500 4999	5000 6499	6500 7999	8000+	TOTAL	NH <5/8 ANY HGT	TOTAL OBS
00003	.0	.0	.0	.0	.0	20.0	.0	.0	.0	.0	20.0	80.0	5
06009	.0	.0	7.1	7.1	21.4	21.4	.0	.0	.0	7.1	64.3	35.7	14
12015	.0	.0	.0	15.4	15.4	7.7	.0	.0	.0	7.7	46.2	53.8	13
18021	.0	.0	.0	8.3	25.0	.0	.0	.0	.0	.0	33.3	66.7	12
TOT	0	0	1	4	8	5	0	0	0	2	20	24	44
PCT	.0	.0	2.3	9.1	18.2	11.4	.0	.0	.0	4.5	45.5	54.5	100.0

TABLE 11

PERCENT FREQUENCY VSBY (NM) BY HOUR

HOUR (GMT)	<1/2	1/2<1	1<2	2<5	5<10	10+	TOTAL OBS
00003	.0	13.6	6.8	.0	59.1	20.5	44
06009	.0	16.0	6.7	1.3	69.3	6.7	75
12015	2.0	8.0	.0	2.0	72.0	16.0	50
18021	.0	16.2	1.5	1.5	67.6	13.2	68
TOT	1	33	9	3	160	31	237
PCT	.4	13.9	3.8	1.3	67.5	13.1	100.0

TABLE 12

CUMULATIVE PCT FREQ OF RANGES OF VSBY (NM) AND/OR  
CEILING HGT (FEET, NH >4/8), BY HOUR

HOUR (GMT)	<150 <500	<600 <1	<1000 <5	1000+ AND 5+	NH <5/8 AND 5+	TOTAL OBS
00003	.0	.0	.0	25.0	75.0	4
06009	.0	9.1	18.2	63.6	18.2	11
12015	.0	.0	15.4	30.8	53.8	13
18021	.0	.0	20.0	30.0	50.0	10
TOT	0	1	6	15	17	38
PCT	.0	2.6	15.8	39.5	44.7	100.0

TABLE 13

PERCENT FREQUENCY OF RELATIVE HUMIDITY BY TEMP

TEMP F	0-29	30-39	40-49	50-59	60-69	70-79	80-89	90-100	TOTAL OBS	PCT FREQ
65/69	.0	.0	.0	.0	2.3	.0	2.3	.0	2	4.7
60/64	.0	.0	.0	.0	.0	7.0	11.6	4.7	10	23.3
55/59	.0	.0	.0	.0	4.7	2.3	27.9	14.0	21	48.8
50/54	.0	.0	.0	.0	2.3	11.6	4.7	4.7	10	23.3
TOTAL	0	0	0	0	4	9	20	10	43	100.0
PCT	.0	.0	.0	.0	9.3	20.9	46.5	23.3		

TABLE 14

PERCENT FREQUENCY OF WIND DIRECTION BY TEMP

	N	NE	E	SE	S	SW	W	NW	VAR	CALM
65/69	.0	.0	1.7	.0	.0	.0	.0	2.3	.0	.0
60/64	9.9	.0	1.2	3.5	.0	2.3	.0	5.8	.0	.0
55/59	10.5	1.2	3.5	4.7	6.4	2.9	8.1	11.6	.0	.0
50/54	.0	.0	.0	7.0	3.5	5.8	4.7	2.3	.0	.0
TOTAL	20.3	2.3	6.4	15.1	9.9	11.0	12.8	22.1	.0	.0

TABLE 15

MEANS, EXTREMES AND PERCENTILES OF TEMP (DEG F) BY HOUR

HOUR (GMT)	MAX	99%	95%	50%	5%	1%	MIN	MEAN	TOTAL OBS
00003	76	75	66	59	52	50	50	59.1	79
06009	75	74	70	59	52	50	50	59.4	91
12015	69	68	64	58	51	50	50	57.7	60
18021	69	68	66	57	50	48	48	57.7	78
TOT	76	74	67	58	51	49	48	58.6	308

TABLE 16

PERCENT FREQUENCY OF RELATIVE HUMIDITY BY HOUR

HOUR (GMT)	0-29	30-39	40-49	50-59	60-69	70-79	80-89	90-100	MEAN	TOTAL OBS
00003	.0	.0	.0	.0	.0	12.5	75.0	12.5	86	8
06009	.0	.0	14.3	21.4	42.9	21.4	21.4	82	83	14
12015	.0	.0	9.1	27.3	36.4	27.3	82	82	82	11
18021	.0	.0	8.3	16.7	33.3	41.7	86	86	86	12
TOT	0	0	4	9	20	12	84	84	45	

## FEBRUARY

PERIOD: (PRIMARY) 1885-1968  
(OVER-ALL) 1858-1968AREA 0011 TASMANIA WEST  
43.35 144.0E

TABLE 17

PCT FREQ OF AIR TEMPERATURE (DEG F) AND THE OCCURRENCE OF FOG (WITHOUT PRECIPITATION)  
VS AIR-SEA TEMPERATURE DIFFERENCE (DEG F)

AIR-SEA TMP DIF	45 48	49 52	53 56	57 60	61 64	65 68	69 72	73 76	TOT	N FOG	NO FOG
9/10	.0	.0	.0	.0	.0	.0	.5	1.0	3	1.0	.5
7/8	.0	.0	.0	.0	.0	1.0	.0	.5	3	.5	1.0
6	.0	.0	.0	.5	1.0	1.0	1.0	.0	7	1.5	2.0
5	.0	.0	.0	.0	2.5	1.5	.5	.0	9	.5	4.0
4	.0	.0	.0	1.0	4.5	2.5	.0	.0	16	2.0	6.1
3	.0	.0	.0	2.0	3.0	1.5	.0	.5	14	1.5	5.6
2	.0	.0	1.5	3.0	6.6	1.0	.5	.0	25	2.5	10.1
1	.0	.5	1.0	3.5	4.5	.5	.0	.0	20	2.0	8.1
0	.0	.5	3.0	7.1	1.5	.0	.0	.0	24	1.5	10.6
-1	.0	1.5	3.5	4.0	1.0	.0	.0	.0	20	.5	9.6
-2	.0	2.0	4.0	3.0	.0	.0	.0	.0	18	.0	9.1
-3	.5	1.0	3.5	.5	.0	.0	.0	.0	11	.0	5.6
-4	.5	1.0	3.0	.5	.0	.0	.0	.0	10	.0	5.1
-5	.0	2.0	1.0	.5	.0	.0	.0	.0	7	.0	3.5
-6	.0	.0	2.5	1.0	.0	.0	.0	.0	7	.0	3.5
-7/-8	.0	1.0	.5	.0	.0	.0	.0	.0	3	.0	1.5
-9/-10	.0	.0	.5	.0	.0	.0	.0	.0	1	.0	.5
TOTAL	2	19	53	49	18	4	5	198	27	171	
PCT	1.0	9.6	24.2	26.8	24.7	9.1	2.5	2.0	100.0	13.6	86.4

PERIOD: (OVER-ALL) 1963-1968

TABLE 18

PCT FREQ OF WIND SPEED (KTS) AND DIRECTION VERSUS SEA HEIGHTS (FT)

HGT	1-3	4-10	11-21	22-33	34-47	48+	PCT	NE	1-3	4-10	11-21	22-33	34-47	48+	PCT
<1	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
1-2	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
3-4	.0	5.0	.0	.0	.0	.0	5.0	.0	.0	.0	.0	.0	.0	.0	.0
5-6	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
7	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
8-9	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
10-11	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
12	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
13-16	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
17-19	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
20-22	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
23-25	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
26-32	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
33-40	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
41-48	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
49-60	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
61-70	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
71-86	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
87+	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
TOT PCT	.0	5.0	.0	.0	.0	.0	5.0	.0	.0	.0	.0	.0	.0	.0	.0

HGT	1-3	4-10	11-21	22-33	34-47	48+	PCT	SE	1-3	4-10	11-21	22-33	34-47	48+	PCT
<1	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
1-2	.0	5.0	.0	.0	.0	.0	5.0	.0	.0	.0	.0	.0	.0	.0	.0
3-4	.0	.0	.0	.0	.0	.0	.0	.0	5.0	5.0	.0	.0	.0	10.0	.0
5-6	.0	.0	.0	.0	.0	.0	.0	.0	.0	5.0	.0	.0	.0	5.0	.0
7	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
8-9	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
10-11	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
12	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
13-16	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
17-19	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
20-22	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
23-25	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
26-32	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
33-40	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
41-48	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
49-60	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
61-70	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
71-86	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
87+	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
TOT PCT	.0	5.0	.0	.0	.0	.0	5.0	.0	5.0	10.0	.0	.0	.0	.0	15.0



PERIOD: (OVER-ALL) 1963-1968

FEBRUARY

AREA 0011 TASMANIA WEST  
43.35 144.0E

TABLE 18 (CONT)

PCT FREQ OF WIND SPEED (KTS) AND DIRECTION VERSUS SEA HEIGHTS (FT)

HGT	1-3	4-10	11-21	22-33	34-47	48+	PCT	1-3	4-10	11-21	22-33	34-47	48+	PCT
<1	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
1-2	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
3-4	.0	3.8	7.5	.0	.0	.0	11.3	.0	1.3	2.5	.0	.0	.0	3.8
5-6	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	10.0	.0	.0	10.0
7	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
8-9	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
10-11	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
12	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
13-16	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
17-19	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
20-22	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
23-25	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
26-32	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
33-40	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
41-48	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
49-60	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
61-70	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
71-86	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
87+	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
TOT PCT	.0	3.8	7.5	.0	.0	.0	11.3	.0	1.3	2.5	10.0	.0	.0	13.8

HGT	1-3	4-10	11-21	22-33	34-47	48+	PCT	1-3	4-10	11-21	22-33	34-47	48+	PCT	TOTAL PCT
<1	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
1-2	.0	.0	.0	.0	.0	.0	.0	.0	5.0	.0	.0	.0	.0	.0	5.0
3-4	.0	.0	8.8	.0	.0	.0	8.8	.0	5.0	16.3	10.0	.0	.0	.0	31.3
5-6	.0	.0	5.0	.0	.0	.0	5.0	.0	.0	.0	.0	.0	.0	.0	.0
7	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
8-9	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
10-11	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
12	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
13-16	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
17-19	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
20-22	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
23-25	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
26-32	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
33-40	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
41-48	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
49-60	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
61-70	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
71-86	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
87+	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
TOT PCT	.0	.0	13.8	.0	.0	.0	13.8	.0	10.0	16.3	10.0	.0	.0	36.3	100.0

WIND SPEED (KTS) VS SEA HEIGHT (FT)

HGT	0-3	4-10	11-21	22-33	34-47	48+	PCT	TOT OBS
<1	.0	.0	.0	.0	.0	.0	.0	.0
1-2	.0	10.0	.0	.0	.0	.0	10.0	.0
3-4	.0	20.0	40.0	10.0	.0	.0	70.0	.0
5-6	.0	.0	10.0	10.0	.0	.0	20.0	.0
7	.0	.0	.0	.0	.0	.0	.0	.0
8-9	.0	.0	.0	.0	.0	.0	.0	.0
10-11	.0	.0	.0	.0	.0	.0	.0	.0
12	.0	.0	.0	.0	.0	.0	.0	.0
13-16	.0	.0	.0	.0	.0	.0	.0	.0
17-19	.0	.0	.0	.0	.0	.0	.0	.0
20-22	.0	.0	.0	.0	.0	.0	.0	.0
23-25	.0	.0	.0	.0	.0	.0	.0	.0
26-32	.0	.0	.0	.0	.0	.0	.0	.0
33-40	.0	.0	.0	.0	.0	.0	.0	.0
41-48	.0	.0	.0	.0	.0	.0	.0	.0
49-60	.0	.0	.0	.0	.0	.0	.0	.0
61-70	.0	.0	.0	.0	.0	.0	.0	.0
71-86	.0	.0	.0	.0	.0	.0	.0	.0
87+	.0	.0	.0	.0	.0	.0	.0	.0
TOT PCT	.0	30.0	50.0	20.0	.0	.0	100.0	20

PERIOD: (OVER-ALL) 1961-1968

TABLE 19

PERCENT FREQUENCY OF WAVE HEIGHT (FT) VS WAVE PERIOD (SECONDS)

PERIOD (SEC)	<1	1-2	3-4	5-6	7	8-9	10-11	12	13-16	17-19	20-22	23-25	26-32	33-40	41-48	49-60	61-70	71-86	87+	TOTAL	MEAN HGT
<6	.0	.0	3.2	3.2	.0	3.2	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	3	5
6-7	.0	.0	.0	9.7	9.7	.0	.0	6.5	3.2	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	9	8
8-9	.0	.0	3.2	.0	3.2	9.7	12.9	3.2	3.2	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	11	9
10-11	.0	.0	.0	.0	3.2	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	1	7
12-13	.0	.0	.0	3.2	.0	6.5	3.2	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	4	8
>13	.0	.0	.0	.0	.0	.0	.0	.0	3.2	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	1	18
INDET	.0	.0	3.2	.0	.0	.0	.0	.0	3.2	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	2	11
TOTAL	.0	.0	3	5	5	6	5	3	2	2	0	0	0	0	0	0	0	0	0	31	9
PCT	.0	.0	9.7	16.1	16.1	19.4	16.1	9.7	6.5	6.5	.0	.0	.0	.0	.0	.0	.0	.0	.0	100.0	

PERIOD: (PRIMARY) 1887-1968  
(OVER-ALL) 1859-1968

MARCH

AREA 0011 TASMANIA WEST  
43.25 144.0E

TABLE 1

PERCENT FREQUENCY OF WEATHER OCCURRENCE BY WIND DIRECTION

WIND DIR	PRECIPITATION TYPE							OTHER WEATHER PHENOMENA							
	RAIN	RAIN SHWR	DRZL	FRZG PCPN	SNOW	OTHER FRZN PCPN	HAIL	PCPN AT DB TIME	PCPN PAST HOUR	THOR LTNG	FGG WD PCPN	FGG WD PCPN PAST HR	SMOKE HAZE	SPRAY BLWG DUST	NO SIG WFA
N	4.0	.0	.0	.0	.0	.0	.0	4.0	.0	.0	12.1	.0	.0	.0	83.8
NE	2.7	.0	.0	.0	.0	.0	.0	2.7	.0	5.5	41.1	.0	.0	.0	50.7
E	3.6	.0	.0	.0	.0	.0	.0	3.6	.0	.0	3.6	.0	.0	.0	92.7
SE	.0	.0	7.0	.0	.0	.0	.0	7.0	.0	.0	3.5	.0	.0	.0	59.5
S	.0	3.4	.0	.0	.0	.0	.0	3.4	3.4	.0	18.5	.0	.0	.0	74.8
SW	8.6	18.1	4.8	.0	.0	.0	1.9	33.3	.0	.0	.0	.0	.0	.0	66.7
W	7.2	10.4	11.7	.0	.0	.0	1.3	30.6	.0	.0	3.3	.0	.0	.0	66.1
NW	.0	9.7	8.2	.0	.0	.0	.0	17.9	3.0	.0	5.2	.0	.0	.0	73.9
VAR	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
CALM	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
TOT PCT	4.0	8.4	6.1	.0	.0	.0	.7	19.2	1.0	.3	7.7	.0	.0	.0	71.7
TOT OBS:	297														

TABLE 2

PERCENT FREQUENCY OF WEATHER OCCURRENCE BY HOUR

HOUR (GMT)	PRECIPITATION TYPE							OTHER WEATHER PHENOMENA							
	RAIN	RAIN SHWR	DRZL	FRZG PCPN	SNOW	OTHER FRZN PCPN	HAIL	PCPN AT DB TIME	PCPN PAST HOUR	THOR LTNG	FGG WD PCPN	FGG WD PCPN PAST HR	SMOKE HAZE	SPRAY BLWG DUST	NO SIG WFA
00003	3.9	10.4	2.6	.0	.0	.0	.0	16.9	.0	.0	7.8	.0	.0	.0	75.3
06009	4.3	5.4	9.8	.0	.0	.0	.0	19.6	1.1	.0	8.7	.0	.0	.0	70.7
12015	1.6	6.5	6.5	.0	.0	.0	1.6	16.1	3.2	1.6	8.1	.0	.0	.0	71.0
18021	6.0	9.6	4.8	.0	.0	.0	2.4	22.9	.0	.0	4.8	.0	.0	.0	72.3
TOT PCT	4.1	8.0	6.1	.0	.0	.0	1.0	19.1	1.0	.3	7.3	.0	.0	.0	72.3
TOT OBS:	314														

TABLE 3

PERCENTAGE FREQUENCY OF WIND DIRECTION BY SPEED AND BY HOUR

WIND DIR	WIND SPEED (KNOTS)							TOTAL OBS	PCT FREQ	MEAN SPD	HOUR (GMT)							
	0-3	4-10	11-21	22-33	34-47	48+					00	03	06	09	12	15	18	21
N	.4	2.4	4.4	1.2	.1	.0		8.4	14.2		13.6	10.7	9.9	2.3	6.0	9.0	8.5	2.6
NE	.2	1.9	3.9	.6	.0	.0		6.6	12.7		10.7	6.8	6.3	7.0	10.0	5.0	5.1	5.1
E	.3	3.3	2.2	.0	.0	.0		5.8	9.9		.0	4.4	7.4	4.7	4.0	10.0	5.9	9.0
SE	.5	3.5	1.8	.0	.0	.0		5.8	9.7		7.1	5.8	6.0	7.0	2.0	8.0	3.4	6.4
S	1.3	4.1	3.4	1.4	.4	.0		10.5	12.9		4.3	11.2	10.9	10.5	14.0	8.0	12.7	11.5
SW	.7	4.2	5.2	4.2	1.8	.7		16.8	20.1		10.0	16.5	16.5	23.3	14.0	12.0	17.4	24.4
W	.7	7.5	8.7	6.2	.6	.5		24.2	17.0		35.7	22.8	24.6	19.8	31.0	25.6	23.3	16.7
NW	1.1	4.6	9.2	6.0	.5	.0		21.3	16.5		18.6	20.9	18.3	25.6	19.0	22.3	22.0	24.4
VAR	.0	.0	.0	.0	.0	.0		.0	.0		.0	.0	.0	.0	.0	.0	.0	.0
CALM	.5							.5	.0		.0	1.0	.0	.0	.0	.0	1.7	.0
TOT OBS	24	134	165	83	14	5	425	15.5			35	103	71	43	25	50	59	39
TOT PCT	5.6	31.5	38.8	19.5	3.3	1.2		100.0			100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0

TABLE 3A

WIND DIR	WIND SPEED (KNOTS)					TOTAL OBS	PCT FREQ	MEAN SPD	HOUR (GMT)				
	0-6	7-16	17-27	28-40	41+				00	06	12	18	21
N	1.3	4.1	2.5	.4	.1		8.4	14.2	11.4	7.0	8.0	6.1	
NE	.8	4.6	1.2	.0	.0		6.6	12.7	7.8	6.6	6.7	5.1	
E	1.5	3.6	.7	.0	.0		5.8	9.9	3.3	6.4	8.0	7.1	
SE	1.2	3.9	.7	.0	.0		5.8	9.7	6.2	6.4	6.0	4.6	
S	2.9	4.2	2.4	.9	.1		10.5	12.9	9.4	10.7	10.0	12.2	
SW	2.4	4.7	5.4	2.5	1.9		16.8	20.1	14.9	19.1	12.7	20.2	
W	3.2	9.5	7.6	2.9	.9		24.2	17.0	26.1	22.8	27.3	20.7	
NW	3.2	7.7	7.2	2.9	.2		21.3	16.5	20.3	21.1	21.3	23.0	
VAR	.0	.0	.0	.0	.0		.0	.0	.0	.0	.0	.0	
CALM	.5						.5	.0	.7	.0	.0	1.0	
TOT OBS	72	180	118	41	14	425	15.5		138	114	75	98	
TOT PCT	16.9	42.4	27.8	9.6	3.3		100.0		100.0	100.0	100.0	100.0	

PERIOD: (PRIMARY) 1887-1968  
(OVER-ALL) 1859-1968

MARCH

AREA 0011 TASMANIA WEST  
43.25 144.0E

TABLE 4

PERCENTAGE FREQUENCY OF WIND SPEED BY HOUR (GMT)

HOUR	CALM	1-3	4-10	WIND SPEED (KNOTS)			48+	MEAN	PCT FREQ	TOTAL OBS
				11-21	22-33	34-47				
00603	.7	4.3	28.3	44.2	19.6	2.2	.7	15.8	100.0	138
06609	.0	7.9	34.2	34.2	18.4	2.6	2.6	15.3	100.0	114
12615	.0	2.7	36.0	37.3	18.7	4.0	1.3	15.4	100.0	75
18621	1.0	5.1	29.6	37.8	21.4	5.1	.0	15.7	100.0	98
TOT	2	22	134	165	83	14	5	15.5		425
PCT	.5	5.2	31.5	38.8	19.5	3.3	1.2	100.0		

TABLE 5

PCT FREQ OF TOTAL CLOUD AMOUNT (EIGHTHS)  
BY WIND DIRECTION

WIND DIR	0-2	3-4	5-7	8 & 8 OBSCD	TOTAL OBS	MEAN CLOUD COVER
N	4.4	1.2	5.2	4.8		5.2
NE	1.6	1.4	1.6	.0		4.0
E	.0	1.6	.0	1.2		5.1
SE	.0	1.6	1.6	.4		5.7
S	1.6	2.8	1.6	.8		4.5
SW	2.0	4.4	3.2	5.6		5.4
W	2.8	5.2	13.1	11.1		5.9
NW	2.0	2.0	4.0	12.7		6.6
VAR	.0	.0	.0	.0		.0
CALM	.0	.0	.0	.0		.0
TOT OBS	9	12	19	23	63	5.7
TOT PCT	14.3	19.0	30.2	36.5	100.0	

TABLE 6

PERCENTAGE FREQUENCY OF CEILING HEIGHTS (FT, NH >4/8)  
AND OCCURRENCE OF NH <5/8 BY WIND DIRECTION

000	150	300	600	1000	2000	3500	5000	6500	8000+	NH <5/8 ANY HGT	TOTAL OBS
149	299	599	999	1999	3999	4999	6499	7999			
.0	.0	.0	2.8	1.6	1.6	1.6	.0	.0	.0	7.9	
.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	1.6	2.0
.0	.0	.0	.0	.0	.0	1.2	.0	.0	.0	1.6	
.0	.0	.0	.0	1.6	.0	.4	.0	.0	.0	1.6	
.0	.0	.0	.0	.8	1.6	.0	.0	.0	.0	4.4	
.0	.0	.0	.0	5.6	.8	.0	.0	.0	.0	7.9	
.0	.0	3.2	.0	7.9	3.6	7.1	.0	.0	.0	10.3	
.0	.0	1.6	.4	7.9	2.0	.0	1.6	.0	1.6	5.6	
.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
.0	.0	4.8	3.2	25.4	9.5	11.1	1.6	.0	3.2	41.3	63
.0	.0										100.0

TABLE 7

CUMULATIVE PCT FREQ OF SIMULTANEOUS OCCURRENCE  
OF CEILING HEIGHT (NH >4/8) AND VSBY (NM)

CEILING (FEET)	VSBY (NM)							
	>10	>5	>2	>1	>1/2	>1/4	>50YD	>0
>6500	.0	3.0	3.0	3.0	3.0	3.0	3.0	3.0
>5000	3.0	6.0	6.0	6.0	6.0	6.0	6.0	6.0
>3500	13.4	17.9	19.4	19.4	19.4	19.4	19.4	19.4
>2000	22.4	26.9	28.4	28.4	28.4	28.4	28.4	28.4
>1000	46.3	50.7	53.7	53.7	53.7	53.7	53.7	53.7
>600	47.8	53.7	56.7	56.7	56.7	56.7	56.7	56.7
>400	50.7	56.7	61.2	61.2	61.2	61.2	61.2	61.2
>150	50.7	56.7	61.2	61.2	61.2	61.2	61.2	61.2
>0	50.7	56.7	61.2	61.2	61.2	61.2	61.2	61.2
TOTAL	34	38	41	41	41	41	41	41

TOTAL NUMBER OF OBS: 67

PCT FREQ NH <5/8: 38.8

TABLE 7A

PERCENTAGE FREQ OF LOW CLOUDS (EIGHTHS)

0	1	2	3	4	5	6	7	8	OBSCD	TOTAL OBS
6.7	8.0	13.3	9.3	2.7	8.0	8.0	17.3	26.7	.0	75

PERIOD: (PRIMARY) 1887-1968  
(OVER-ALL) 1859-1968

MARCH

AREA 0011 TASMANIA WEST  
43.25 144.0E

TABLE 8

PERCENT FREQ OF WIND DIRECTION VS OCCURRENCE OR NON-OCCURRENCE OF  
PRECIPITATION WITH VARYING VALUES OF VISIBILITY

VSBY (NM)		N	NE	E	SE	S	SW	W	NW	VAR	CALM	PCT	TOTAL OBS
<1/2	PCP	.0	.0	.0	.0	.0	.0	.3	.0	.0	.0	.3	
	NO PCP	.2	.2	.0	.2	.5	.0	.2	.5	.0	.0	1.7	
	TOT %	.2	.2	.0	.2	.5	.0	.5	.5	.0	.0	2.0	
1/2<1	PCP	.0	.0	.0	.0	.0	.0	.3	.0	.0	.0	.3	
	NO PCP	.8	2.4	.2	.0	1.3	.0	.7	1.7	.0	.0	7.1	
	TOT %	.8	2.4	.2	.0	1.3	.0	1.0	1.7	.0	.0	7.4	
1<2	PCP	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
	NO PCP	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
	TOT %	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
2<5	PCP	.0	.0	.0	.0	.0	.0	.8	.2	.0	.0	1.0	
	NO PCP	.0	.0	.0	.0	.0	.3	.6	.1	.0	.0	1.0	
	TOT %	.0	.0	.0	.0	.0	.3	1.4	.3	.0	.0	2.0	
5<10	PCP	.3	.2	.2	.3	.3	5.6	6.4	3.2	.0	.0	16.5	
	NO PCP	4.7	2.9	3.4	3.4	6.1	7.9	9.8	10.4	.0	.0	48.5	
	TOT %	5.1	3.0	3.5	3.7	6.4	13.5	16.2	13.6	.0	.0	65.0	
10+	PCP	.0	.0	.0	.0	.0	.3	.0	.7	.0	.0	1.0	
	NO PCP	2.3	.6	.9	.9	1.8	3.5	6.7	5.8	.0	.0	22.6	
	TOT %	2.3	.6	.9	.9	1.8	3.9	6.7	6.5	.0	.0	23.6	
TOT OBS		8.3	6.1	4.6	4.8	10.0	17.7	25.8	22.6	.0	.0	100.0	297
TOT PCT													

TABLE 9

PERCENT FREQ OF WIND DIRECTION VS WIND SPEED  
WITH VARYING VALUES OF VISIBILITY

VSBY (NM)	SPD KTS	N	NE	E	SE	S	SW	W	NW	VAR	CALM	PCT	TOTAL OBS
<1/2	0-3	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
	4-10	.2	.2	.0	.0	.3	.0	.3	.0	.0	.0	1.0	
	11-21	.0	.0	.0	.2	.2	.0	.2	.5	.0	.0	1.0	
	22+	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
	TOT %	.2	.2	.0	.2	.5	.0	.5	.5	.0	.0	2.0	
1/2<1	0-3	.0	.3	.0	.0	.3	.0	.0	.0	.0	.0	.7	
	4-10	.2	.8	.0	.0	.3	.0	.7	.0	.0	.0	2.0	
	11-21	.7	1.2	.2	.0	.7	.0	.3	.7	.0	.0	3.7	
	22+	.0	.0	.0	.0	.0	.0	.0	1.0	.0	.0	1.0	
	TOT %	.8	2.3	.2	.0	1.3	.0	1.0	1.7	.0	.0	7.4	
1<2	0-3	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
	4-10	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
	11-21	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
	22+	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
	TOT %	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
2<5	0-3	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
	4-10	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
	11-21	.0	.0	.0	.0	.0	.0	1.1	.3	.0	.0	1.3	
	22+	.0	.0	.0	.0	.0	.3	.3	.0	.0	.0	.7	
	TOT %	.0	.0	.0	.0	.0	.3	1.4	.3	.0	.0	2.0	
5<10	0-3	.5	.0	.2	.3	1.2	1.0	1.0	.8	.0	.0	5.0	
	4-10	1.2	.5	1.7	1.7	2.8	3.2	4.2	1.5	.0	.0	16.7	
	11-21	2.7	2.3	1.7	1.7	1.7	3.7	5.2	5.9	.0	.0	24.7	
	22+	.7	.2	.0	.0	.7	5.5	5.7	5.4	.0	.0	18.1	
	TOT %	5.0	3.0	3.5	3.7	6.4	13.4	16.1	13.5	.0	.0	64.5	
10+	0-3	.0	.0	.3	.4	.0	.0	.0	.7	.0	.0	1.3	
	4-10	.9	.2	.2	.7	.8	2.2	1.9	.8	.0	.0	7.7	
	11-21	1.3	.4	.5	.2	.7	1.1	2.8	3.8	.0	.0	10.7	
	22+	.0	.0	.0	.0	.3	.9	2.0	1.2	.0	.0	4.3	
	TOT %	2.3	.6	.9	1.3	1.8	4.2	6.7	6.4	.0	.0	24.1	
TOT OBS		8.3	6.1	4.6	5.1	9.9	17.9	25.7	22.4	.0	.0	100.0	299
TOT PCT													

MARCH

PERIOD: (PRIMARY) 1887-1968  
(OVER-ALL) 1859-1968AREA 0011 TASMANIA WEST  
43.25 144.0E

TABLE 10

PERCENT FREQUENCY OF CEILING HEIGHTS (FEET, NH > 4/8) AND  
OCCURRENCE OF NH < 5/8 BY HOUR

HOUR (GMT)	000 149	150 299	300 599	600 999	1000 1999	2000 3499	3500 4999	5000 6499	6500 7999	8000+	TOTAL	NH < 5/8 ANY HGT	TOTAL OBS
00003	.0	.0	4.5	4.5	18.2	13.6	13.6	.0	.0	4.5	59.1	40.9	22
06009	.0	.0	4.5	4.5	27.3	.0	18.2	.0	.0	4.5	59.1	40.9	22
12015	.0	.0	6.7	.0	20.0	13.3	13.3	6.7	.0	.0	60.0	40.0	15
18021	.0	.0	.0	.0	33.3	8.3	.0	8.3	.0	.0	50.0	50.0	12
TOT	0	0	3	2	17	6	9	2	0	2	41	30	71
PCT	.0	.0	4.2	2.8	23.9	8.5	12.7	2.8	.0	2.8	57.7	42.3	100.0

TABLE 11

PERCENT FREQUENCY VSBY (NM) BY HOUR

HOUR (GMT)	<1/2	1/2<1	1<2	2<5	5<10	10+	TOTAL OBS
00003	1.3	6.5	.0	1.3	61.0	29.9	77
06009	3.2	7.5	.0	3.2	63.4	22.6	93
12015	3.2	6.3	.0	1.6	61.9	27.0	63
18021	.0	7.2	.0	1.2	72.3	19.3	83
TOT	6	22	0	6	205	77	316
PCT	1.9	7.0	.0	1.9	64.9	24.4	100.0

TABLE 12

CUMULATIVE PCT FREQ OF RANGES OF VSBY (NM) AND/OR  
CEILING HGT (FEET, NH > 4/8) BY HOUR

HOUR (GMT)	<150 <50YD	<600 <1	<1000 <5	1000+ AND 5+	NH < 5/8 AND 5+	TOTAL OBS
00003	.0	4.5	13.6	45.5	40.9	22
06009	.0	5.3	21.1	52.5	26.3	19
12015	.0	6.7	13.3	53.3	33.3	15
18021	.0	.0	.0	54.5	45.5	11
TOT	0	3	9	34	24	67
PCT	.0	4.5	13.4	50.7	35.8	100.0

TABLE 13

PERCENT FREQUENCY OF RELATIVE HUMIDITY BY TEMP

TEMP F	0-29	30-39	40-49	50-59	60-69	70-79	80-89	90-100	TOTAL OBS	PCT FREQ
65/69	.0	.0	.0	.0	.0	1.3	1.3	.0	2	2.7
60/64	.0	.0	.0	.0	1.3	.0	6.7	1.3	7	9.3
55/59	.0	.0	.0	.0	5.3	20.0	28.0	8.0	46	61.3
50/54	.0	.0	.0	.0	5.3	8.0	5.3	2.7	16	21.3
45/49	.0	.0	.0	.0	1.3	1.3	1.3	1.3	4	5.3
TOTAL	0	0	0	0	10	23	32	10	75	100.0
PCT	.0	.0	.0	.0	13.3	30.7	42.7	13.3		

TABLE 14

PERCENT FREQUENCY OF WIND DIRECTION BY TEMP

N	NE	E	SE	S	SW	W	NW	VAR	CALM
1.0	.3	.0	.0	.0	.0	.0	1.3	.0	.0
.0	.7	.7	.0	1.3	.0	1.3	5.3	.0	.0
5.0	2.7	1.3	2.7	1.3	8.7	25.3	14.3	.0	.0
2.3	.0	.0	.0	3.0	5.3	9.0	1.7	.0	.0
.0	.0	.0	.0	.0	2.0	3.3	.0	.0	.0
8.3	3.7	2.0	2.7	5.7	16.0	39.0	22.7	.0	.0

TABLE 15

MEANS, EXTREMES AND PERCENTILES OF TEMP (DEG F) BY HOUR

HOUR (GMT)	MAX	99%	95%	50%	5%	1%	MIN	MEAN	TOTAL OBS
00003	72	68	62	56	52	50	47	57.1	136
06009	67	66	64	56	51	48	48	57.0	115
12015	64	63	61	55	48	44	44	55.6	78
18021	66	65	60	55	49	46	46	54.7	102
TOT	72	66	62	56	50	46	44	56.2	431

TABLE 16

PERCENT FREQUENCY OF RELATIVE HUMIDITY BY HOUR

HOUR (GMT)	0-29	30-59	60-69	70-79	80-89	90-100	MEAN	TOTAL OBS
00003	.0	.0	4.2	33.3	54.2	8.3	82	24
06009	.0	.0	12.5	25.0	45.8	16.7	82	24
12015	.0	.0	22.2	38.9	27.8	11.1	77	18
18021	.0	.0	18.8	25.0	31.3	25.0	81	16
TOT	0	0	11	25	34	12	81	82



PERIOD: (PRIMARY) 1887-1968  
(OVER-ALL) 1859-1968

MARCH

AREA 0011 TASMANIA WEST  
43.25 144.0E

TABLE 17

PCT FREQ OF AIR TEMPERATURE (DEG F) AND THE OCCURRENCE OF FOG (WITHOUT PRECIPITATION)  
VS AIR-SEA TEMPERATURE DIFFERENCE (DEG F)

AIR-SEA TMP DIF	41 44	45 48	49 52	53 56	57 60	61 64	65 68	TOT	N FOG	NO FOG
7/8	.0	.0	.0	.0	.0	.3	.0	1	.0	.3
8	.0	.0	.0	.0	.0	.0	1.0	3	.3	.7
5	.0	.0	.0	.0	.3	1.0	.0	4	.7	.7
4	.0	.0	.0	.0	1.4	1.4	.0	8	.3	2.4
3	.0	.0	.0	.0	1.4	1.0	.0	7	.7	1.7
2	.0	.0	.0	1.0	7.9	1.7	.3	32	3.1	7.9
1	.0	.0	.3	3.8	6.2	.3	.3	32	1.7	9.3
0	.0	.0	.7	9.6	4.8	.3	.3	46	.7	15.1
-1	.0	.0	.3	7.2	5.5	1.0	.0	41	.0	14.1
-2	.0	.3	3.1	8.9	2.7	.0	.0	44	.0	15.1
-3	.0	.0	2.7	4.1	.0	.3	.0	21	.3	6.9
-4	.0	.3	1.4	5.2	.7	.3	.0	23	.0	7.9
-5	.0	.7	1.4	.3	1.4	.3	.0	12	.0	4.1
-6	.0	.7	2.1	.3	.3	.0	.0	10	.0	3.4
-7/-8	.3	.7	.0	.3	.7	.0	.0	6	.0	2.1
-9/-10	.0	.0	.0	.3	.0	.0	.0	1	.0	.3
TOTAL	1		35		97		6	291	23	268
PCT	.3	2.7	12.0	41.2	33.3	8.2	2.1	100.0	7.9	92.1

PERIOD: (OVER-ALL) 1963-1968

TABLE 18

PCT FREQ OF WIND SPEED (KTS) AND DIRECTION VERSUS SEA HEIGHTS (FT)

HGT	1-3	4-10	11-21	22-33	34-47	48+	PCT	1-3	4-10	11-21	22-33	34-47	48+	PCT
<1	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
1-2	.0	5.8	.0	.0	.0	.0	5.8	.0	.0	6.7	.0	.0	.0	6.7
3-4	.0	.0	2.5	.0	.0	.0	2.5	.0	.0	.8	.0	.0	.0	.8
5-6	.0	3.3	2.5	.0	.0	.0	5.8	.0	.0	.0	.0	.0	.0	.0
7	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
8-9	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
10-11	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
12	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
13-16	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
17-19	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
20-22	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
23-25	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
26-32	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
33-40	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
41-48	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
49-60	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
61-70	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
71-86	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
87+	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
TOT PCT	.0	9.2	5.0	.0	.0	.0	14.2	.0	.0	7.5	.0	.0	.0	7.5

HGT	1-3	4-10	11-21	22-33	34-47	48+	PCT	1-3	4-10	11-21	22-33	34-47	48+	PCT
<1	2.5	.0	.0	.0	.0	.0	2.5	.8	.0	.0	.0	.0	.0	.8
1-2	.0	.0	3.3	.0	.0	.0	3.3	3.3	.0	.0	.0	.0	.0	3.3
3-4	.0	.0	.0	.0	.0	.0	.0	.0	3.3	.0	.0	.0	.0	3.3
5-6	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
7	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
8-9	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
10-11	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
12	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
13-16	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
17-19	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
20-22	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
23-25	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
26-32	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
33-40	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
41-48	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
49-60	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
61-70	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
71-86	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
87+	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
TOT PCT	2.5	.0	3.3	.0	.0	.0	5.8	4.2	3.3	.0	.0	.0	.0	7.5

PERIOD: (OVER-ALL) 1963-1968

MARCH

AREA 0011 TASMANIA WEST  
43.25 144.0E

TABLE 18 (CONT)

PCT FREQ OF WIND SPEED (KTS) AND DIRECTION VERSUS SEA HEIGHTS (FT)

HGT	1-3	4-10	11-21	22-33	34-47	48+	PCT	1-3	4-10	11-21	22-33	34-47	48+	PCT
<1	.0	3.3	.0	.0	.0	.0	3.3	.0	.0	.0	.0	.0	.0	.0
1-2	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
3-4	.0	3.3	.0	.0	.0	.0	3.3	.0	.0	.0	.0	.0	.0	.0
5-6	.0	.0	.0	.0	.0	.0	.0	.0	.0	.8	.0	.0	.0	.8
7	.0	.0	3.3	.0	.0	.0	3.3	.0	.0	.0	.0	.0	.0	.0
8-9	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
10-11	.0	.0	.0	2.5	.0	.0	2.5	.0	.0	.0	.8	.0	.0	.8
12	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
13-16	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
17-19	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
20-22	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
23-25	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
26-32	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
33-40	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
41-48	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
49-60	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
61-70	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
71-86	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
87+	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
TOT PCT	.0	6.7	3.3	2.5	.0	.0	12.5	.0	.0	.8	.8	.0	.0	1.7

HGT	1-3	4-10	11-21	22-33	34-47	48+	PCT	1-3	4-10	11-21	22-33	34-47	48+	PCT	TOTAL PCT
<1	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
1-2	.0	.0	.0	.0	.0	.0	.0	.0	.8	.0	.0	.0	.0	.8	.8
3-4	.0	2.5	2.5	.0	.0	.0	5.0	.0	.8	14.2	3.3	.0	.0	18.3	18.3
5-6	.0	3.3	5.8	.0	.0	.0	9.2	.0	.0	4.2	.0	.0	.0	4.2	4.2
7	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
8-9	.0	.0	10.0	3.3	.0	.0	13.3	.0	.0	.0	.0	.0	.0	.0	.0
10-11	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
12	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
13-16	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
17-19	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
20-22	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
23-25	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
26-32	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
33-40	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
41-48	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
49-60	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
61-70	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
71-86	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
87+	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
TOT PCT	.0	5.8	18.3	3.3	.0	.0	27.5	.0	1.7	18.3	3.3	.0	.0	23.3	100.0

WIND SPEED (KTS) VS SEA HEIGHT (FT)

HGT	0-3	4-10	11-21	22-33	34-47	48+	PCT	TOT DBS
<1	3.3	3.3	.0	.0	.0	.0	6.7	
1-2	3.3	6.7	10.0	.0	.0	.0	20.0	
3-4	.0	10.0	20.0	3.3	.0	.0	33.3	
5-6	.0	6.7	13.3	.0	.0	.0	20.0	
7	.0	.0	3.3	.0	.0	.0	3.3	
8-9	.0	.0	10.0	3.3	.0	.0	13.3	
10-11	.0	.0	.0	3.3	.0	.0	3.3	
12	.0	.0	.0	.0	.0	.0	.0	
13-16	.0	.0	.0	.0	.0	.0	.0	
17-19	.0	.0	.0	.0	.0	.0	.0	
20-22	.0	.0	.0	.0	.0	.0	.0	
23-25	.0	.0	.0	.0	.0	.0	.0	
26-32	.0	.0	.0	.0	.0	.0	.0	
33-40	.0	.0	.0	.0	.0	.0	.0	
41-48	.0	.0	.0	.0	.0	.0	.0	
49-60	.0	.0	.0	.0	.0	.0	.0	
61-70	.0	.0	.0	.0	.0	.0	.0	
71-86	.0	.0	.0	.0	.0	.0	.0	
87+	.0	.0	.0	.0	.0	.0	.0	
TOT PCT	6.7	26.7	56.7	10.0	.0	.0	100.0	30

PERIOD: (OVER-ALL) 1951-1968

TABLE 19

PERCENT FREQUENCY OF WAVE HEIGHT (FT) VS WAVE PERIOD (SECONDS)

PERIOD (SEC)	<1	1-2	3-4	5-6	7	8-9	10-11	12	13-16	17-19	20-22	23-25	26-32	33-40	41-48	49-60	61-70	71-86	87+	TOTAL	MEAN HGT	
<6	.0	3.8	5.8	3.8	.0	.0	.0	.0	5.8	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	10	5
6-7	.0	.0	3.8	11.5	5.8	1.9	1.9	1.9	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	14	5
8-9	.0	.0	1.9	7.7	3.8	.0	1.9	1.9	.0	1.9	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	10	7
10-11	.0	1.9	.0	.0	5.8	3.8	1.9	1.9	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	8	8
12-13	.0	.0	.0	1.9	.0	.0	.0	1.9	3.8	1.9	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	5	12
13-14	.0	.0	.0	.0	.0	.0	1.9	.0	.0	.0	1.9	.0	.0	.0	.0	.0	.0	.0	.0	.0	2	16
UNDET	1.9	.0	.0	.0	1.9	1.9	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	3	5
TOTAL	1	3	6	13	9	4	4	4	5	2	1	0	0	0	0	0	0	0	0	0	52	8
PCT	1.9	5.8	11.5	25.0	17.3	7.7	7.7	7.7	9.6	3.8	1.9	.0	.0	.0	.0	.0	.0	.0	.0	.0	100.0	

APRIL

PERIOD: (PRIMARY) 1887-1973  
(OVER-ALL) 1859-1973AREA 0011 TASMANIA WEST  
43.25 144.5E

TABLE 1

## PERCENT FREQUENCY OF WEATHER OCCURRENCE BY WIND DIRECTION

WIND DIR	PRECIPITATION TYPE							OTHER WEATHER PHENOMENA							
	RAIN	RAIN SHWR	DRZL	FRZG PCPN	SNOW	OTHER FRZN PCPN	HAIL	PCPN AT OB TIME	PCPN PAST HOUR	THDR LTNG	FOG PCPN	FOG WD PCPN PAST HR	SMOKE HAZE	SPRAY BLWG DUST	NO SIG WEA
N	12.4	12.4	5.4	.0	.0	.0	.0	30.3	.0	.0	3.8	.0	.0	.0	65.9
NE	.0	4.7	.0	.0	.0	.0	.0	4.7	4.7	.0	1.2	.0	2.3	.0	87.2
E	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	3.6	.0	96.4
SE	.0	11.1	.0	.0	.0	.0	.0	11.1	.0	.0	.0	.0	.0	.0	88.9
S	.0	26.5	.0	.0	.0	.0	3.1	29.6	.0	.0	.0	.0	.0	.0	70.4
SW	.7	25.1	1.8	.0	.0	.0	.4	28.0	.0	.0	.7	.0	.0	.0	71.2
W	5.5	21.2	2.4	.0	.0	.0	.0	29.1	4.4	.9	2.6	.0	.0	.0	62.9
NW	7.6	22.1	5.8	.0	.0	.0	.0	35.5	.9	.0	1.3	.0	.9	.0	61.4
VAR	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
CALM	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
TOT PCT	5.1	19.6	3.2	.0	.0	.0	.2	28.2	1.7	.2	1.7	.0	.5	.0	67.6
TOT OBS:	408														

TABLE 2

## PERCENT FREQUENCY OF WEATHER OCCURRENCE BY HOUR

HOUR (GMT)	PRECIPITATION TYPE							OTHER WEATHER PHENOMENA							
	RAIN	RAIN SHWR	DRZL	FRZG PCPN	SNOW	OTHER FRZN PCPN	HAIL	PCPN AT OB TIME	PCPN PAST HOUR	THDR LTNG	FOG PCPN	FOG WD PCPN PAST HR	SMOKE HAZE	SPRAY BLWG DUST	NO SIG WEA
00003	6.0	19.0	3.6	.0	.0	.0	.0	28.6	1.2	.0	1.2	.0	1.2	.0	67.9
06009	4.3	17.3	3.6	.0	.0	.0	.7	25.9	2.2	.0	1.4	.0	.7	.0	69.8
12015	4.4	17.6	2.2	.0	.0	.0	.0	24.2	2.2	.0	2.2	.0	.0	.0	71.4
18021	6.7	20.7	3.0	.0	.0	.0	.0	30.4	.7	.7	1.5	.0	.0	.0	66.7
TOT PCT	5.3	18.7	3.1	.0	.0	.0	.2	27.4	1.6	.2	1.6	.0	.4	.0	68.8
TOT OBS:	449														

TABLE 3

## PERCENTAGE FREQUENCY OF WIND DIRECTION BY SPEED AND BY HOUR

WIND DIR	WIND SPEED (KNOTS)							TOTAL OBS	PCT FREQ	MEAN SPD	HOUR (GMT)							
	0-3	4-10	11-21	22-33	34-47	48+					00	03	06	09	12	15	18	21
N	2.5	3.2	3.5	2.0	.5	.2		11.9	13.9		13.7	10.9	7.8	10.2	8.5	13.0	14.5	18.5
NE	1.3	1.8	1.4	.7	.0	.0		5.1	10.1		4.0	6.4	2.1	.9	12.5	12.0	4.3	2.2
E	1.1	2.0	.9	.0	.0	.0		4.0	7.7		2.4	3.8	4.2	2.8	3.1	2.8	8.0	1.1
SE	.9	.8	.7	.0	.0	.0		2.3	7.0		.0	3.2	3.0	1.9	.0	2.8	2.5	2.2
S	.9	.9	3.2	.4	.2	.0		5.7	13.9		.0	7.1	6.6	4.6	8.6	2.8	6.5	6.5
SW	1.4	9.2	4.4	1.6	.2	.0		16.7	11.5		7.3	17.6	15.1	17.6	10.2	19.4	17.6	23.4
W	2.7	8.2	8.5	3.0	2.2	.0		26.5	15.8		50.0	22.8	30.7	28.7	20.3	21.3	25.6	19.0
NW	2.1	9.5	7.7	6.3	2.2	.1		27.8	16.0		22.6	28.2	30.4	33.3	36.7	25.9	21.0	27.2
VAR	.0	.0	.0	.0	.0	.0		.0	.0		.0	.0	.0	.0	.0	.0	.0	.0
CALM	.0	.0	.0	.0	.0	.0		.0	.0		.0	.0	.0	.0	.0	.0	.0	.0
TOT OBS	59	163	139	73	24	1	459		14.0		31	78	83	54	32	54	81	46
TOT PCT	12.9	35.5	30.3	15.9	5.2	.2		100.0			100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0

TABLE 3A

WIND DIR	WIND SPEED (KNOTS)					TOTAL OBS	PCT FREQ	MEAN SPD	HOUR (GMT)				
	0-6	7-16	17-27	28-40	41+				00	06	12	18	
N	3.3	4.2	3.1	1.3	.2		11.9	13.9	11.7	8.8	11.3	15.9	
NE	1.9	2.4	.9	.0	.0		5.1	10.1	5.7	1.6	12.2	3.5	
E	1.9	1.7	.4	.0	.0		4.0	7.7	3.4	3.6	2.9	5.5	
SE	1.6	.2	.4	.0	.0		2.3	7.0	2.3	2.6	1.7	2.4	
S	1.6	1.4	2.2	.2	.2		5.7	13.9	5.0	5.8	4.9	6.5	
SW	4.7	8.0	3.2	.7	.2		16.7	11.5	14.7	16.1	16.0	19.7	
W	6.2	9.0	8.6	3.6	1.0		26.5	15.8	30.5	29.9	20.9	23.2	
NW	5.0	10.8	8.3	4.5	.7		27.8	16.0	26.6	31.6	29.9	23.2	
VAR	.0	.0	.0	.0	.0		.0	.0	.0	.0	.0	.0	
CALM	.0	.0	.0	.0	.0		.0	.0	.0	.0	.0	.0	
TOT OBS	123	173	106	47	10	459		14.0	109	137	86	127	
TOT PCT	26.8	37.7	23.1	10.2	2.2		100.0		100.0	100.0	100.0	100.0	

PERIOD: (PRIMARY) 1887-1973  
(OVER-ALL) 1859-1973

APRIL

AREA 0011 TASMANIA WEST  
43.25 144.5E

TABLE 4

PERCENTAGE FREQUENCY OF WIND SPEED BY HOUR (GMT)

HOUR	CALM	1-3	4-10	WIND SPEED (KNOTS)			48+	MEAN	PCT FREQ	TOTAL OBS
				11-21	22-33	34-47				
0000	.0	6.4	38.5	31.2	18.3	5.5	.0	15.0	100.0	109
0600	.0	17.5	32.1	29.9	16.1	3.6	.7	13.6	100.0	137
1200	.0	10.5	30.2	32.6	20.9	5.8	.0	15.0	100.0	86
1800	.0	15.0	40.2	28.3	10.2	6.3	.0	13.0	100.0	127
TOT	.0	59	163	139	73	24	1	14.0		459
PCT	.0	12.9	35.5	30.3	15.9	5.2	.2		100.0	

TABLE 5

PCT FREQ OF TOTAL CLOUD AMOUNT (EIGHTHS)  
BY WIND DIRECTION

WIND DIR	0-2	3-4	5-7	8 & OBS	TOTAL OBS	MEAN CLOUD COVER
N	.8	.0	2.4	9.8		7.1
NE	.0	1.1	.3	4.6		7.0
E	.0	1.1	1.1	.8		5.4
SE	.0	.0	.0	.0		.0
S	2.7	.8	2.2	.8		4.2
SW	2.7	1.4	3.3	4.6		5.6
W	3.3	3.3	17.9	7.6		6.0
NW	1.4	1.1	14.1	10.9		6.6
VAR	.0	.0	.0	.0		.0
CALM	.0	.0	.0	.0		.0
TOT OBS	10	8	38	36	92	6.1
TOT PCT	10.9	8.7	41.3	39.1	100.0	

TABLE 6

PERCENTAGE FREQUENCY OF CEILING HEIGHTS (FT, NH >4/8)  
AND OCCURRENCE OF NH <5/8 BY WIND DIRECTION

	000 149	150 299	300 599	600 999	1000 1999	2000 3999	3500 6499	5000 7999	6500 8000+	NH <5/8 ANY HGT	TOTAL OBS
N	.0	.0	1.6	3.0	2.7	.0	.0	1.1	1.9	.8	1.9
NE	.0	.0	.3	.3	.0	1.1	.0	.0	.0	1.1	3.3
E	.0	.0	.0	.8	.0	.0	.0	.0	.0	.0	2.2
SE	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
S	.0	.0	.0	.0	1.1	.8	.0	.0	.0	.0	4.6
SW	.0	.0	.0	1.1	4.3	2.4	.0	.0	.0	.0	4.1
W	.0	.0	.0	7.3	4.9	2.7	3.3	.0	.0	1.1	12.8
NW	.0	.0	.3	6.0	7.6	2.7	2.2	1.1	1.4	1.4	4.9
VAR	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
CALM	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
TOT OBS	0	2	17	19	9	5	2	3	4	31	92
TOT PCT	.0	.0	2.2	18.5	20.7	9.8	5.4	2.2	3.3	4.3	33.7

TABLE 7

CUMULATIVE PCT FREQ OF SIMULTANEOUS OCCURRENCE  
OF CEILING HEIGHT (NH >4/8) AND VSBY (NM)

CEILING (FEET)	VSBY (NM)							
	>10	>5	>2	>1	>1/2	>1/4	>50YD	>0
>6500	4.3	7.5	7.5	7.5	7.5	7.5	7.5	7.5
>6000	6.5	9.7	9.7	9.7	9.7	9.7	9.7	9.7
>3500	11.8	15.1	15.1	15.1	15.1	15.1	15.1	15.1
>2000	19.4	24.7	24.7	24.7	24.7	24.7	24.7	24.7
>1000	33.3	43.0	44.1	45.2	45.2	45.2	45.2	45.2
>600	44.1	61.3	62.4	63.4	63.4	63.4	63.4	63.4
>300	44.1	62.4	63.4	65.6	65.6	65.6	65.6	65.6
>150	44.1	62.4	63.4	65.6	65.6	65.6	65.6	65.6
>0	44.1	62.4	63.4	65.6	65.6	65.6	65.6	65.6
TOTAL	41	58	59	61	61	61	61	61

TOTAL NUMBER OF OBS: 93

PCT FREQ NH <5/8: 34.4

TABLE 7A

PERCENTAGE FREQ OF LOW CLOUDS (EIGHTHS)

	0	1	2	3	4	5	6	7	8	OBS	TOTAL OBS
	4.2	5.2	10.4	5.2	10.4	9.4	8.3	14.6	32.3	.0	96

PERIOD: (PRIMARY) 1887-1973  
(OVER-ALL) 1859-1973

APRIL

AREA 0011 TASMANIA WEST  
43.2S 144.5E

TABLE 8

PERCENT FREQ OF WIND DIRECTION VS OCCURRENCE OR NON-OCCURRENCE OF  
PRECIPITATION WITH VARYING VALUES OF VISIBILITY

VSBY (NM)		N	NE	E	SE	S	SW	W	NW	VAR	CALM	PCT	TOTAL OBS
<1/2	PCP	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
	NO PCP	.0	.0	.0	.0	.0	.0	.2	.2	.0	.0	.5	.5
	TOT %	.0	.0	.0	.0	.0	.0	.2	.2	.0	.0	.5	.5
1/2<1	PCP	.0	.0	.0	.0	.0	.2	.6	.9	.0	.0	1.7	1.7
	NO PCP	.2	.0	.0	.0	.0	.6	.7	.4	.0	.0	2.0	2.0
	TOT %	.2	.0	.0	.0	.0	.9	1.3	1.2	.0	.0	3.7	3.7
1<2	PCP	.2	.0	.0	.0	.0	.1	.2	.3	.0	.0	.7	.7
	NO PCP	.0	.1	.1	.0	.0	.0	.0	.2	.0	.0	.5	.5
	TOT %	.2	.1	.1	.0	.0	.1	.2	.6	.0	.0	1.2	1.2
2<5	PCP	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
	NO PCP	.0	.0	.0	.0	.0	.2	.0	.2	.0	.0	.5	.5
	TOT %	.0	.0	.0	.0	.0	.2	.0	.2	.0	.0	.5	.5
5<10	PCP	2.8	.2	.0	.2	1.6	4.0	6.6	8.1	.0	.0	23.5	23.5
	NO PCP	6.0	3.2	2.3	2.0	2.9	8.9	11.9	13.1	.0	.0	50.2	50.2
	TOT %	8.8	3.4	2.3	2.2	4.5	13.0	18.4	21.1	.0	.0	73.8	73.8
10+	PCP	.5	.0	.0	.0	.2	.3	.7	.5	.0	.0	2.2	2.2
	NO PCP	1.7	1.7	1.0	.0	1.3	2.1	6.8	3.6	.0	.0	18.1	18.1
	TOT %	2.1	1.7	1.0	.0	1.5	2.5	7.5	4.0	.0	.0	20.3	20.3
TOT OBS													
TOT PCT													
		11.3	5.3	3.4	2.2	6.0	16.6	27.8	27.5	.0	.0	100.0	408

TABLE 9

PERCENT FREQ OF WIND DIRECTION VS WIND SPEED  
WITH VARYING VALUES OF VISIBILITY

VSBY (NM)	SPD KTS	N	NE	E	SE	S	SW	W	NW	VAR	CALM	PCT	TOTAL OBS
<1/2	0-3	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
	4-10	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
	11-21	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
	22+	.0	.0	.0	.0	.0	.0	.2	.2	.0	.0	.5	.5
	TOT %	.0	.0	.0	.0	.0	.0	.2	.2	.0	.0	.5	.5
1/2<1	0-3	.2	.0	.0	.0	.0	.0	.2	.0	.0	.0	.5	.5
	4-10	.0	.0	.0	.0	.0	.6	.5	.6	.0	.0	1.7	1.7
	11-21	.0	.0	.0	.0	.0	.2	.5	.2	.0	.0	1.0	1.0
	22+	.0	.0	.0	.0	.0	.0	.1	.4	.0	.0	.5	.5
	TOT %	.2	.0	.0	.0	.0	.9	1.3	1.2	.0	.0	3.7	3.7
1<2	0-3	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
	4-10	.0	.1	.1	.0	.0	.0	.0	.0	.0	.0	.2	.2
	11-21	.2	.0	.0	.0	.0	.1	.2	.3	.0	.0	.7	.7
	22+	.0	.0	.0	.0	.0	.0	.0	.2	.0	.0	.2	.2
	TOT %	.2	.1	.1	.0	.0	.1	.2	.6	.0	.0	1.2	1.2
2<5	0-3	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
	4-10	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
	11-21	.0	.0	.0	.0	.0	.2	.0	.0	.0	.0	.2	.2
	22+	.0	.0	.0	.0	.0	.0	.0	.2	.0	.0	.2	.2
	TOT %	.0	.0	.0	.0	.0	.2	.0	.2	.0	.0	.5	.5
5<10	0-3	2.6	1.5	1.0	1.0	.9	1.5	2.6	2.3	.0	.0	13.3	13.3
	4-10	2.5	1.4	1.1	.9	.9	8.2	5.4	7.4	.0	.0	28.7	28.7
	11-21	1.9	.6	.2	.4	2.8	2.7	6.1	6.0	.0	.0	20.6	20.6
	22+	1.8	.0	.0	.0	.0	.6	3.4	5.3	.0	.0	11.9	11.9
	TOT %	8.8	3.4	2.3	2.2	4.5	13.0	18.4	21.1	.0	.0	73.8	73.8
10+	0-3	.0	.0	.0	.0	.2	.1	.0	.0	.0	.0	.2	.2
	4-10	.7	.2	.5	.0	.2	1.2	2.2	2.4	.0	.0	7.4	7.4
	11-21	1.3	1.0	.5	.0	.7	1.1	2.8	.7	.0	.0	8.1	8.1
	22+	.2	.5	.0	.0	.4	.1	2.5	.9	.0	.0	4.7	4.7
	TOT %	2.1	1.7	1.0	.0	1.5	2.5	7.5	4.0	.0	.0	20.3	20.3
TOT OBS													
TOT PCT													
		11.3	5.3	3.4	2.2	6.0	16.6	27.8	27.5	.0	.0	100.0	408



APRIL

PERIOD: (PRIMARY) 1887-1973  
(OVER-ALL) 1859-1973AREA 0011 TASMANIA WEST  
43.25 144.5E

TABLE 10

PERCENT FREQUENCY OF CEILING HEIGHTS (FEET, NH >4/8) AND  
OCCURRENCE OF NH <5/8 BY HOUR

HOUR (GMT)	000	150	300	600	1000	2000	3500	5000	6500	8000+	TOTAL	NH <5/8 ANY HGT	TOTAL OBS
	149	299	599	999	1999	3499	4999	5499	7999				
00003	.0	.0	.0	21.7	13.0	13.0	4.3	8.7	.0	8.7	69.6	30.4	23
06009	.0	.0	7.4	18.5	22.2	3.7	7.4	.0	3.7	.0	63.0	37.0	27
12015	.0	.0	.0	18.5	22.2	11.1	3.7	.0	3.7	3.7	63.0	37.0	27
18021	.0	.0	.0	11.1	22.2	11.1	5.6	.0	5.6	5.6	61.1	38.9	18
TOT	0	0	2	17	19	9	5	2	3	4	61	34	95
PCT	.0	.0	2.1	17.9	20.0	9.5	5.3	2.1	3.2	4.2	64.2	35.8	100.0

TABLE 11

PERCENT FREQUENCY VSBY (NM) BY HOUR

HOUR (GMT)	<1/2	1/2<1	1<2	2<5	5<10	10+	TOTAL OBS
00003	1.2	3.6	2.4	.0	65.5	27.4	84
06009	.0	3.6	2.2	.7	77.7	15.8	139
12015	1.1	3.3	.0	1.1	69.2	25.3	91
18021	.7	3.0	.0	.0	80.7	15.6	135
TOT	3	15	5	2	335	89	449
PCT	.7	3.3	1.1	.4	74.6	19.8	100.0

TABLE 12

CUMULATIVE PCT FREQ OF RANGES OF VSBY (NM) AND/OR  
CEILING HGT (FEET, NH >4/8), BY HOUR

HOUR (GMT)	<150 <50YD	<600 <1	<1000 <5	1000+ AND 5+	NH <5/8 AND 5+	TOTAL OBS
00003	.0	.0	21.7	47.8	30.4	23
06009	.0	7.4	29.6	33.3	37.0	27
12015	.0	.0	23.1	42.3	34.6	26
18021	.0	.0	11.8	52.9	35.3	17
TOT	0	2	21	40	32	93
PCT	.0	2.2	22.6	43.0	34.4	100.0

TABLE 13

PERCENT FREQUENCY OF RELATIVE HUMIDITY BY TEMP

TEMP F	0-29	30-39	40-49	50-59	60-69	70-79	80-89	90-100	TOTAL OBS	PCT FREQ
65/69	.0	.0	.0	.0	1.1	.0	.0	.0	1	1.1
60/64	.0	.0	.0	.0	.0	1.1	3.2	3.2	7	7.5
55/59	.0	.0	.0	6.5	2.2	11.8	15.1	17.2	49	52.7
50/54	.0	.0	.0	.0	8.6	5.4	12.9	4.3	29	31.2
45/49	.0	.0	.0	1.1	.0	1.1	3.2	2.2	7	7.5
TOTAL	0	0	0	7	11	18	32	25	93	100.0
PCT	.0	.0	.0	7.5	11.8	19.4	34.4	26.9		

TABLE 14

PERCENT FREQUENCY OF WIND DIRECTION BY TEMP

	N	NE	E	SE	S	SW	W	NW	VAR	CALM
65/69	.8	.0	.0	.0	.0	.0	.0	.3	.0	.0
60/64	2.7	3.5	.8	.0	.0	.0	.0	.5	.0	.0
55/59	10.2	2.4	3.2	.0	.8	4.0	15.1	16.9	.0	.0
50/54	.0	.0	.0	.0	3.5	9.1	14.2	4.3	.0	.0
45/49	.0	.0	.0	.0	2.2	.5	3.8	1.1	.0	.0
TOTAL	13.7	5.9	4.0	.0	6.5	13.7	33.1	23.1	.0	.0

TABLE 15

MEANS, EXTREMES AND PERCENTILES OF TEMP (DEG F) BY HOUR

HOUR (GMT)	MAX	99%	95%	50%	5%	1%	MIN	MEAN	TOTAL OBS
00003	68	65	62	56	50	48	48	56.2	113
06009	69	68	65	56	50	47	46	56.6	148
12015	66	61	60	55	49	45	45	54.8	96
18021	64	62	59	54	49	47	45	54.4	142
TOT	69	67	62	55	50	47	45	55.5	499

TABLE 16

PERCENT FREQUENCY OF RELATIVE HUMIDITY BY HOUR

HOUR (GMT)	0-29	30-39	60-69	70-79	80-89	90-100	MEAN	TOTAL OBS
00003	.0	4.2	20.8	20.8	29.2	25.0	80	24
06009	.0	7.7	7.7	19.2	34.6	30.8	83	26
12015	.0	15.4	15.4	15.4	23.1	30.8	79	26
18021	.0	.0	5.3	26.3	52.6	15.8	82	19
TOT	0	7	12	19	32	25	81	95

## APRIL

PERIOD: (PRIMARY) 1887-1973  
(OVER-ALL) 1859-1973

AREA 0011 TASMANIA WEST  
43.2S 144.5E

TABLE 17

PCT FREQ OF AIR TEMPERATURE (DEG F) AND THE OCCURRENCE OF FDG (WITHOUT PRECIPITATION)  
VS AIR-SEA TEMPERATURE DIFFERENCE (DEG F)

AIR-SEA TMP DIF	45 48	49 52	53 56	57 60	61 64	65 68	69 72	TOT	W FDG	WD FDG
11/13	.0	.0	.0	.2	.0	.5	.2	4	.0	.9
9/10	.0	.0	.0	.0	.2	.9	.0	5	.0	1.2
7/8	.0	.0	.2	.0	.0	.7	.0	4	.0	.9
6	.0	.0	.0	.9	.9	.5	.0	10	.0	2.4
5	.0	.0	.0	1.6	1.4	.0	.0	13	.0	3.1
4	.0	.0	.0	4.0	1.9	.0	.0	25	.0	5.9
3	.0	.0	1.4	5.4	.9	.0	.0	33	.2	7.5
2	.0	.0	4.5	4.7	.5	.0	.0	41	.0	9.6
1	.0	.2	7.5	4.2	.2	.0	.0	52	.5	11.8
0	.0	2.1	7.8	2.6	.0	.0	.0	53	.0	12.5
-1	.0	1.6	6.1	2.1	.0	.0	.0	42	.2	9.6
-2	.0	2.6	5.6	.7	.0	.0	.0	38	.5	8.5
-3	.0	3.8	4.9	.0	.0	.0	.0	37	.0	8.7
-4	.0	2.1	3.8	.0	.0	.0	.0	25	.0	5.9
-5	.5	2.4	.9	.0	.0	.0	.0	16	.0	3.8
-6	.2	2.4	.9	.2	.0	.0	.0	16	.0	3.8
-7/-8	.5	1.4	.0	.0	.0	.0	.0	8	.0	1.9
-9/-10	.5	.0	.0	.0	.0	.0	.0	2	.0	.5
-14/-16	.2	.0	.0	.0	.0	.0	.0	1	.0	.2
TOTAL	8	79	186	114	20	11	1	425	6	419
PCT	1.9	18.6	43.8	26.8	6.1	2.6	.2	100.0	1.4	98.6

PERIOD: (OVER-ALL) 1963-1973

TABLE 18

PCT FREQ OF WIND SPEED (KTS) AND DIRECTION VERSUS SEA HEIGHTS (FT)

HGT	1-3	4-10	11-21	22-33	34-47	48+	PCT	NE	1-3	4-10	11-21	22-33	34-47	48+	PCT
<1	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
1-2	.0	1.1	.0	.0	.0	.0	1.1	.0	.0	.0	.0	.0	.0	.0	.0
3-4	.0	1.1	2.2	.0	.0	.0	3.3	.0	.4	4.8	.0	.0	.0	.0	5.1
5-6	.0	.0	5.1	.0	.0	.0	5.1	.0	.0	.0	.0	.0	.0	.0	.0
7	.0	.0	.0	.0	.0	.0	.0	.0	.0	1.5	1.5	.0	.0	.0	2.9
8-9	.0	.0	.0	1.1	.0	.0	1.1	.0	.0	.0	.0	.0	.0	.0	.0
10-11	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
12	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
13-16	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
17-19	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
20-22	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
23-25	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
26-32	.0	.0	.0	.0	.0	1.1	1.1	.0	.0	.0	.0	.0	.0	.0	.0
33-40	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
41-48	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
49-60	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
61-70	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
71-86	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
87+	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
TOT PCT	.0	2.2	7.4	1.1	.0	1.1	11.8	.0	.4	6.3	1.5	.0	.0	.0	8.1

HGT	1-3	4-10	11-21	22-33	34-47	48+	PCT	SE	1-3	4-10	11-21	22-33	34-47	48+	PCT
<1	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
1-2	.0	1.5	.0	.0	.0	.0	1.5	.0	.0	.0	.0	.0	.0	.0	.0
3-4	.0	.0	2.6	.0	.0	.0	2.6	.0	.0	.0	.0	.0	.0	.0	.0
5-6	.0	.0	1.5	.0	.0	.0	1.5	.0	.0	.0	.0	.0	.0	.0	.0
7	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
8-9	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
10-11	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
12	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
13-16	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
17-19	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
20-22	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
23-25	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
26-32	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
33-40	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
41-48	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
49-60	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
61-70	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
71-86	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
87+	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
TOT PCT	.0	1.5	4.0	.0	.0	.0	5.5	.0	.0	.0	.0	.0	.0	.0	.0

PERIOD: (OVER-ALL) 1963-1973

APRIL

AREA 0011 TASMANIA WEST  
43.25 144.5E

TABLE 18 (CONT)

PCT FREQ OF WIND SPEED (KTS) AND DIRECTION VERSUS SEA HEIGHTS (FT)

HGT	S							SW							PCT	TOTAL PCT
	1-3	4-10	11-21	22-33	34-47	48+	PCT	1-3	4-10	11-21	22-33	34-47	48+	PCT		
<1	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
1-2	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
3-4	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
5-6	.0	.0	1.5	.0	.0	.0	1.5	.0	1.5	3.3	.0	.0	.0	4.8	.0	
7	.0	.0	1.1	.0	.0	.0	1.1	.0	.0	3.3	.0	.0	.0	3.3	.0	
8-9	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
10-11	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
12	.0	.0	.0	1.5	.0	.0	1.5	.0	.0	.0	.0	.0	.0	.0	.0	
13-16	.0	.0	.0	.0	1.1	.0	1.1	.0	.0	.0	.0	.4	.0	.4	.0	
17-19	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
20-22	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
23-25	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
26-32	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
33-40	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
41-48	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
49-60	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
61-70	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
71-86	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
87+	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
TOT PCT	.0	.0	2.6	1.5	1.1	.0	5.1	.0	1.5	6.6	.0	.4	.0	8.5	.0	

HGT	W							NW							PCT	TOTAL PCT
	1-3	4-10	11-21	22-33	34-47	48+	PCT	1-3	4-10	11-21	22-33	34-47	48+	PCT		
<1	.0	1.5	.0	.0	.0	.0	1.5	.0	1.5	.0	.0	.0	.0	1.5	.0	
1-2	.0	5.9	.0	.0	.0	.0	5.9	.0	.4	1.5	.0	.0	.0	1.8	.0	
3-4	.0	1.5	4.4	.0	.0	.0	5.9	.0	5.9	.7	.0	.0	.0	6.6	.0	
5-6	.0	.0	5.1	1.5	.0	.0	6.6	.0	.0	4.0	.0	.0	.0	4.0	.0	
7	.0	1.5	.0	5.5	.0	.0	7.0	.0	.0	1.5	1.8	.0	.0	3.3	.0	
8-9	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.4	.0	.0	.4	.0	
10-11	.0	.0	1.1	.0	.0	.0	1.1	.0	.0	.4	1.5	.0	.0	1.8	.0	
12	.0	.0	1.5	2.9	.0	.0	4.4	.0	.0	.0	.0	.0	.0	.0	.0	
13-16	.0	.0	.0	2.6	.0	.0	2.6	.0	.0	.0	1.8	.0	.0	1.8	.0	
17-19	.0	.0	.0	1.5	1.5	.0	2.9	.0	.0	.0	.0	.0	.0	.0	.0	
20-22	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
23-25	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
26-32	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	1.5	.4	1.8	.0	
33-40	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
41-48	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
49-60	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
61-70	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
71-86	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
87+	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
TOT PCT	.0	10.3	12.1	14.0	1.5	.0	37.9	.0	7.7	8.1	5.5	1.5	.4	23.2	100.0	

WIND SPEED (KTS) VS SEA HEIGHT (FT)

HGT	0-3	4-10	11-21	22-33	34-47	48+	PCT	TOT DBS
<1	.0	2.9	.0	.0	.0	.0	2.9	
1-2	.0	8.8	1.5	.0	.0	.0	10.3	
3-4	.0	8.8	14.7	.0	.0	.0	23.5	
5-6	.0	1.5	20.6	1.5	.0	.0	23.5	
7	.0	1.5	7.4	8.8	.0	.0	17.6	
8-9	.0	.0	.0	1.5	.0	.0	1.5	
10-11	.0	.0	1.5	1.5	.0	.0	2.9	
12	.0	.0	1.5	4.4	.0	.0	5.9	
13-16	.0	.0	.0	4.4	1.5	.0	5.9	
17-19	.0	.0	.0	1.5	1.5	.0	2.9	
20-22	.0	.0	.0	.0	.0	.0	.0	
23-25	.0	.0	.0	.0	.0	.0	.0	
26-32	.0	.0	.0	.0	1.5	1.5	2.9	
33-40	.0	.0	.0	.0	.0	.0	.0	
41-48	.0	.0	.0	.0	.0	.0	.0	
49-60	.0	.0	.0	.0	.0	.0	.0	
61-70	.0	.0	.0	.0	.0	.0	.0	
71-86	.0	.0	.0	.0	.0	.0	.0	
87+	.0	.0	.0	.0	.0	.0	.0	
TOT PCT	.0	23.5	47.1	23.5	4.4	1.5	100.0	68

PERIOD: (OVER-ALL) 1949-1973

TABLE 19

PERCENT FREQUENCY OF WAVE HEIGHT (FT) VS WAVE PERIOD (SECONDS)

PERIOD (SEC)	<1	1-2	3-4	5-6	7	8-9	10-11	12	13-16	17-19	20-22	23-25	26-32	33-40	41-48	49-60	61-70	71-86	87+	TOTAL	MEAN HGT
<6	.0	2.4	4.8	2.4	6.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	13	5
6-7	.0	.0	2.4	3.0	2.4	3.0	.0	2.4	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	12	7
8-9	.0	.0	.0	.0	4.8	8.3	3.6	2.4	6.0	1.2	.0	.0	.0	.0	.0	.0	.0	.0	.0	22	10
10-11	.0	.0	.0	.0	1.2	7.1	2.4	7.1	3.6	2.4	.0	.0	.0	.0	.0	.0	.0	.0	.0	20	11
12-13	.0	.0	.0	.0	2.4	2.4	2.4	1.2	1.2	.0	.0	.0	.0	1.2	1.2	.0	.0	.0	.0	10	15
>13	.0	.0	.0	.0	.0	2.4	.0	1.2	1.2	.0	1.2	.0	.0	.0	1.2	.0	.0	.0	.0	8	18
INDEX	.0	.0	.0	.0	.0	.0	1.2	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	1	10
TOTAL	.0	2	6	5	14	20	8	12	10	3	1	0	0	1	2	0	0	0	0	84	10
PCT	.0	2.4	7.1	6.0	16.7	23.8	9.5	14.3	11.9	3.6	1.2	.0	.0	1.2	2.4	.0	.0	.0	.0	100.0	

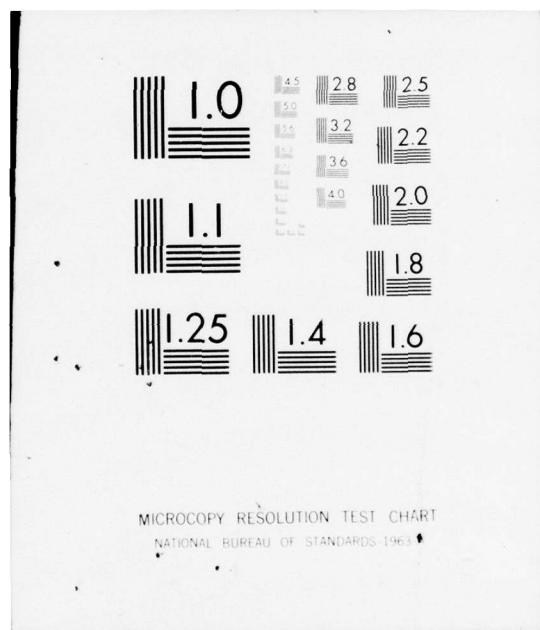
NAVAL WEATHER SERVICE DETACHMENT ASHEVILLE N C F/6 4/2  
SUMMARY OF SYNOPTIC METEOROLOGICAL OBSERVATIONS (SSMO). AUSTRAL--ETC(U)  
SEP 77

170 472  
AUSTRAL--ETC(U)

NL

AD  
A044426

100%





PERIOD: (PRIMARY) 1885-1970  
(OVER-ALL) 1875-1970

MAY

AREA 0011 TASMANIA WEST  
43.45 144.1E

TABLE 1

PERCENT FREQUENCY OF WEATHER OCCURRENCE BY WIND DIRECTION

PRECIPITATION TYPE										OTHER WEATHER PHENOMENA					
WIND DIR	RAIN	RAIN SHWR	DRZL	FRZG PCPN	SNOW	OTHER FRZN PCPN	HAIL	PCPN AT DB TIME	PCPN PAST HOUR	THDR LTNG	FDG WD PCPN	FDG WD PCPN PAST HR	SMOKE HAZE	SPRAY BLWG DUST	NO SIG WEA
N	5.1	6.4	.0	.0	.0	.0	.0	11.5	2.5	.0	2.5	.0	.0	.0	83.4
NE	.0	.0	.0	.0	.0	.0	.0	.0	11.1	.0	.0	.0	.0	.0	88.9
E	.0	11.5	.0	.0	.0	.0	.0	11.5	.0	.0	.0	.0	.0	.0	88.5
SE	.0	16.7	.0	.0	.0	.0	.0	16.7	.0	.0	.0	.0	.0	.0	83.3
S	.0	32.7	15.4	.0	.0	.0	.0	48.1	.0	.0	9.6	.0	.0	.0	42.3
SW	.6	28.0	10.2	.0	.0	.0	.0	38.9	1.3	.0	3.8	.0	.0	.0	56.1
W	7.3	23.2	3.7	.0	.0	.0	.0	34.1	8.5	1.2	.0	.0	.0	.0	57.3
NW	2.5	13.1	4.9	.0	.0	.0	.0	20.5	6.6	1.6	3.3	.0	.0	.0	69.7
VAR	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
CALM	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
TOT PCT	2.9	18.6	5.4	.0	.0	.0	.0	27.0	3.9	.5	2.9	.0	.0	.0	66.2
TOT OBS:	204														

TABLE 2

PERCENT FREQUENCY OF WEATHER OCCURRENCE BY HOUR

HOUR (GMT)	PRECIPITATION TYPE							OTHER WEATHER PHENOMENA								
	RAIN	RAIN SHR	DRZL	FRZG PCPN	SNOW	OTHER FRZN PCPN	HAIL	PCPN AT DB TIME	PCPN PAST HOUR	THDR LTNG	FDG WD PCPN	FDG WD PCPN PAST HR	SMOKE HAZE	SPRAY BLWG BLWG	DUST DUST SNOW	NO SIG WEA
0000	2.3	18.6	.0	.0	.0	.0	.0	20.9	.0	.0	2.3	.0	.0	.0	.0	76.7
0600	1.6	21.3	3.3	.0	.0	.0	.0	26.2	1.6	.0	6.6	.0	.0	.0	.0	65.6
1200	8.1	8.1	8.1	.0	.0	.0	.0	24.3	5.4	.0	2.7	.0	.0	.0	.0	67.6
1800	1.5	20.6	8.8	.0	.0	.0	.0	30.9	7.4	1.5	2.9	.0	.0	.0	.0	58.8
TOT PCT TOT OBS:	2.9	18.2	5.3	.0	.0	.0	.0	26.3	3.8	.5	3.8	.0	.0	.0	.0	66.0

TABLE 3

PERCENTAGE FREQUENCY OF WIND DIRECTION BY SPEED AND BY HOUR

WIND DIR	WIND SPEED (KNOTS)							48+	TOTAL OBS	PCT FREQ	MEAN SPD	HOUR (GMT)						
	0-3	4-10	11-21	22-33	34-47	00	03					06	09	12	15	18	21	
N	.4	3.0	10.4	5.5	1.3	.0		20.6	18.3		4.8	19.6	27.0	26.9	17.2	21.4	16.1	25.9
NE	.4	2.9	2.2	1.4	.0	.0		6.9	13.6		9.5	7.8	6.1	3.8	12.5	12.5	5.2	1.7
E	.2	1.5	2.6	.9	.4	.0		5.6	16.0		2.4	5.9	7.1	9.6	6.3	.0	4.2	8.6
SE	.2	.6	1.9	.2	.0	.2		3.0	15.3		7.1	2.9	2.0	1.9	.0	3.6	2.1	5.2
S	.2	2.1	2.4	1.9	3.5	.9		11.0	26.7		7.1	16.7	9.2	9.6	3.1	14.3	9.4	12.1
SW	1.3	2.4	7.9	9.1	.2	.1		17.1	17.7		26.2	13.7	15.3	17.3	21.9	14.3	18.2	17.2
W	.0	2.1	9.1	4.6	1.1	2.0		18.8	23.4		32.1	20.6	18.4	3.8	31.3	12.5	22.4	13.8
NW	.4	3.5	8.9	3.5	.6	.2		17.0	16.6		10.7	12.7	14.8	26.9	7.8	21.4	22.4	15.5
VAR	.0	.0	.0	.0	.0	.0		.0	.0		.0	.0	.0	.0	.0	.0	.0	.0
CALM	.0	.0	.0	.0	.0	.0		.0	.0		.0	.0	.0	.0	.0	.0	.0	.0
TOT OBS	8	48	122	62	19	9	268		19.2		21	51	49	26	16	28	48	29
TOT PCT	3.0	17.9	45.5	23.1	7.1	3.4		100.0			100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0

TABLE 3A

WIND DIR	WIND SPEED (KNOTS)					TOTAL OBS	PCT FREQ	MEAN SPD	HOUR (GMT)				
	0-6	7-16	17-27	28-40	41+				00	03	06	12	18
N	1.1	7.3	9.8	2.4	.0		20.6	18.3	15.3	27.0	19.9	19.8	
NE	.6	4.4	1.6	.4	.0		6.9	13.6	8.3	5.3	12.5	3.9	
E	.2	3.2	1.7	.6	.0		5.6	16.0	4.9	8.0	2.3	5.8	
SE	.6	1.5	.6	.2	.2		3.0	15.3	4.2	2.0	2.3	3.2	
S	.7	2.6	2.4	3.2	2.1		11.0	26.7	13.9	9.3	10.2	10.4	
SW	2.8	3.0	4.4	2.8	.1		17.1	17.7	17.4	16.0	17.0	17.9	
W	1.3	3.8	8.6	2.1	3.1		18.8	23.4	24.0	13.3	19.3	19.2	
NW	1.7	7.8	5.4	1.9	.2		17.0	16.6	12.2	19.0	16.5	19.8	
VAR	.0	.0	.0	.0	.0		.0	.0	.0	.0	.0	.0	
CALM	.0	.0	.0	.0	.0		.0	.0	.0	.0	.0	.0	
TOT OBS	24	90	103	36	15	268		19.2	72	75	44	77	
TOT PCT	9.0	33.6	38.4	13.4	5.6		100.0		100.0	100.0	100.0	100.0	

PERIOD: (PRIMARY) 1885-1970  
(OVER-ALL) 1875-1970

MAY

AREA 0011 TASMANIA WEST  
43.45 144.1E

TABLE 4

PERCENTAGE FREQUENCY OF WIND SPEED BY HOUR (GMT)

HOUR	CALM	1-3	4-10	WIND SPEED (KNOTS)				48+	MEAN	PCT FREQ	TOTAL OBS
				11-21	22-33	34-47					
0000	.0	.0	22.2	44.4	23.6	5.6	4.2	19.7	100.0		72
0600	.0	1.3	20.0	45.3	24.0	5.3	4.0	19.5	100.0		75
1200	.0	6.8	20.5	43.2	20.5	9.1	.0	17.3	100.0		44
1800	.0	5.2	10.4	48.1	23.4	9.1	3.9	19.7	100.0		77
TOT	0	8	48	122	62	19	9	19.2			268
PCT	.0	3.0	17.9	45.5	23.1	7.1	3.4	100.0			

TABLE 5

PCT FREQ OF TOTAL CLOUD AMOUNT (EIGHTHS)  
BY WIND DIRECTION

WIND DIR	0-2	3-4	5-7	8 & OBSCD	TOTAL OBS	MEAN CLOUD COVER
N	3.3	.0	12.3	1.4		5.5
NE	1.9	.0	2.4	1.9		5.1
E	1.9	.0	1.9	.0		3.5
SE	.0	.0	.0	1.9		8.0
S	.0	2.8	1.9	.0		5.2
SW	1.9	5.2	8.0	2.4		5.2
W	.0	5.2	14.6	14.6		6.7
NW	.5	1.9	6.1	6.1		6.6
VAR	.0	.0	.0	.0		.0
CALM	.0	.0	.0	.0		.0
TOT OBS	5	8	25	15	53	5.9
TOT PCT	9.4	15.1	47.2	28.3	100.0	

TABLE 6

PERCENTAGE FREQUENCY OF CEILING HEIGHTS (FT), NH >4/8  
AND OCCURRENCE OF NH <5/8 BY WIND DIRECTION

	000 149	150 299	300 599	600 999	1000 1999	2000 3499	3500 4999	5000 6499	6500 7999	8000+	NH <5/8 ANY HGT	TOTAL OBS
N	.0	.0	.0	.0	1.9	.0	.0	.0	2.8	.0	12.3	
NE	.0	.0	.0	.0	1.9	.0	.0	.0	.0	.0	2.4	
E	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	3.8	
SE	.0	.0	.0	.0	.0	.0	1.9	.0	.0	.0	.0	
S	.0	.0	.0	.0	.0	.0	1.9	.0	.0	.0	2.8	
SW	.0	.0	1.9	2.4	3.3	2.8	.0	.0	.0	.0	7.1	
W	.0	.0	.0	5.2	17.5	2.8	1.9	.0	.0	.0	7.1	
NW	.0	.0	.0	5.7	.0	3.8	.0	.0	.9	.0	4.2	
VAR	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
CALM	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
TOT OBS	0	0	1	7	13	6	3	0	2	0	21	53
TOT PCT	.0	.0	1.9	13.2	24.5	11.3	5.7	.0	3.8	.0	39.6	100.0

TABLE 7

CUMULATIVE PCT FREQ OF SIMULTANEOUS OCCURRENCE  
OF CEILING HEIGHT (NH >4/8) AND VSBY (NM)

CEILING (FEET)	VSBY (NM)							
	>10	>5	>2	>1	>1/2	>1/4	>30YD	>0
>6500	3.7	3.7	3.7	3.7	3.7	3.7	3.7	3.7
>4000	3.7	3.7	3.7	3.7	3.7	3.7	3.7	3.7
>3500	9.3	9.3	9.3	9.3	9.3	9.3	9.3	9.3
>2000	16.7	20.4	20.4	20.4	20.4	20.4	20.4	20.4
>1000	27.8	44.4	44.4	44.4	44.4	44.4	44.4	44.4
>400	35.2	57.4	57.4	57.4	57.4	57.4	57.4	57.4
>300	37.0	59.3	59.3	59.3	59.3	59.3	59.3	59.3
>150	37.0	59.3	59.3	59.3	59.3	59.3	59.3	59.3
>0	37.0	59.3	59.3	59.3	59.3	59.3	59.3	59.3
TOTAL	20	32	32	32	32	32	32	32

TOTAL NUMBER OF OBS: 54

PCT FREQ NH <5/8: 40.7

TABLE 7A

PERCENTAGE FREQ OF LOW CLOUDS (EIGHTHS)

	0	1	2	3	4	5	6	7	8	OBSCD	TOTAL OBS
	3.1	7.8	6.3	4.7	14.1	6.3	17.2	7.8	32.8	.0	64

PERIOD: (PRIMARY) 1885-1970  
(OVER-ALL) 1875-1970

MAY

AREA 0011 TASMANIA WEST  
43.45 144.1E

TABLE 8

PERCENT FREQ OF WIND DIRECTION VS OCCURRENCE OR NON-OCCURRENCE OF  
PRECIPITATION WITH VARYING VALUES OF VISIBILITY

VSBY (NM)		N	NE	E	SE	S	SW	W	NW	VAR	CALM	PCT	TOTAL OBS
<1/2	PCP	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
	NO PCP	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
	TOT %	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
1/2<1	PCP	.7	.0	.0	.0	.7	.7	2.0	.7	.0	.0	4.9	
	NO PCP	.7	.0	.0	.0	1.2	.7	.0	.7	.0	.0	3.4	
	TOT %	1.5	.0	.0	.0	2.0	1.5	2.0	1.5	.0	.0	8.3	
1<2	PCP	.5	.0	.0	.0	.0	.0	.0	.0	.0	.0	.5	
	NO PCP	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
	TOT %	.5	.0	.0	.0	.0	.0	.0	.0	.0	.0	.5	
2<5	PCP	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
	NO PCP	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
	TOT %	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
5<10	PCP	1.0	.0	.7	.5	5.1	6.0	4.9	2.3	.0	.0	20.6	
	NO PCP	11.4	2.3	4.7	2.0	4.4	6.7	8.2	7.8	.0	.0	47.5	
	TOT %	12.4	2.3	5.4	2.5	9.6	12.7	13.1	10.2	.0	.0	68.1	
10+	PCP	.0	.0	.0	.0	.2	.7	.0	.0	.0	.0	1.0	
	NO PCP	4.9	2.1	1.0	.5	1.0	4.3	5.0	3.3	.0	.0	22.1	
	TOT %	4.9	2.1	1.0	.5	1.2	5.0	5.0	3.3	.0	.0	23.0	
TOT OBS													
TOT PCT		19.2	4.4	6.4	2.9	12.7	19.2	20.1	15.0	.0	.0	100.0	204

TABLE 9

PERCENT FREQ OF WIND DIRECTION VS WIND SPEED  
WITH VARYING VALUES OF VISIBILITY

VSBY (NM)	SPD KTS	N	NE	E	SE	S	SW	W	NW	VAR	CALM	PCT	TOTAL OBS
<1/2	0-3	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
	4-10	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
	11-21	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
	22+	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
	TOT %	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
1/2<1	0-3	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
	4-10	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
	11-21	.7	.0	.0	.0	2.0	1.5	2.0	.7	.0	.0	6.9	
	22+	.7	.0	.0	.0	.0	.0	.0	.7	.0	.0	1.5	
	TOT %	1.5	.0	.0	.0	2.0	1.5	2.0	1.5	.0	.0	8.3	
1<2	0-3	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
	4-10	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
	11-21	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
	22+	.5	.0	.0	.0	.0	.0	.0	.0	.0	.0	.5	
	TOT %	.5	.0	.0	.0	.0	.0	.0	.0	.0	.0	.5	
2<5	0-3	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
	4-10	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
	11-21	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
	22+	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
	TOT %	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
5<10	0-3	.5	.5	.0	.0	.0	.5	.0	.0	.0	.0	1.5	
	4-10	1.3	.6	1.0	.0	1.0	2.2	.7	1.5	.0	.0	8.3	
	11-21	5.4	.7	2.9	2.2	1.0	5.0	6.1	7.0	.0	.0	30.4	
	22+	5.1	.5	1.5	.2	7.6	5.0	6.3	1.7	.0	.0	27.9	
	TOT %	12.4	2.3	5.4	2.5	9.6	12.7	13.1	10.2	.0	.0	68.1	
10+	0-3	.0	.0	.0	.0	.0	.5	.0	.0	.0	.0	.5	
	4-10	1.3	1.5	1.0	.5	1.2	.2	1.5	1.6	.0	.0	8.8	
	11-21	2.7	.5	.0	.0	.0	2.7	1.7	1.7	.0	.0	9.3	
	22+	.9	.1	.0	.0	.0	1.6	1.8	.0	.0	.0	4.4	
	TOT %	4.9	2.1	1.0	.5	1.2	5.0	5.0	3.3	.0	.0	23.0	
TOT OBS													
TOT PCT		19.2	4.4	6.4	2.9	12.7	19.2	20.1	15.0	.0	.0	100.0	204

MAY

PERIOD: (PRIMARY) 1885-1970  
(OVER-ALL) 1875-1970

TABLE 10

AREA 0011 TASMANIA WEST  
43.45 144.1EPERCENT FREQUENCY OF CEILING HEIGHTS (FEET, NH >4/8) AND  
OCCURRENCE OF NH <5/8 BY HOUR

HOUR (GMT)	000 149	150 299	300 599	600 999	1000 1999	2000 3499	3500 4999	5000 6499	6500 7999	8000+	TOTAL	NH <5/8 ANY HGT	TOTAL OBS
00003	.0	.0	.0	7.1	21.4	28.6	7.1	.0	.0	.0	64.3	35.7	14
06009	.0	.0	.0	7.1	21.4	7.1	14.3	.0	7.1	.0	57.1	42.9	14
12015	.0	.0	.0	15.4	30.8	.0	.0	.0	7.7	.0	53.8	46.2	13
18021	.0	.0	7.1	21.4	21.4	7.1	.0	.0	.0	.0	57.1	42.9	14
TOT	0	0	1	7	13	6	3	0	2	0	32	23	55
PCT	.0	.0	1.8	12.7	23.6	10.9	5.5	.0	3.6	.0	58.2	41.8	100.0

TABLE 11

PERCENT FREQUENCY VSBY (NM) BY HOUR

HOUR (GMT)	<1/2	1/2<1	1<2	2<5	5<10	10+	TOTAL OBS
00003	.0	7.0	.0	.0	62.8	30.2	43
06009	.0	11.5	.0	.0	65.6	23.0	61
12015	.0	8.1	2.7	.0	59.5	29.7	37
18021	.0	8.8	.0	.0	76.5	14.7	68
TOT	0	19	1	0	141	48	209
PCT	.0	9.1	.5	.0	67.5	23.0	100.0

TABLE 12

CUMULATIVE PCT FREQ OF RANGES OF VSBY (NM) AND/OR  
CEILING HGT (FEET, NH >4/8) BY HOUR

HOUR (GMT)	<150 <500	<600 <1	<1000 <5	1000+ AND 5+	NH <5/8 AND 5+	TOTAL OBS
00003	.0	.0	7.7	61.5	30.8	13
06009	.0	.0	7.1	50.0	42.9	14
12015	.0	.0	15.4	38.5	46.2	13
18021	.0	7.1	28.6	28.6	42.9	14
TOT	0	1	8	24	22	54
PCT	.0	1.9	14.8	44.4	40.7	100.0

TABLE 13

PERCENT FREQUENCY OF RELATIVE HUMIDITY BY TEMP

TEMP F	0-29	30-39	40-49	50-59	60-69	70-79	80-89	90-100	TOTAL OBS	PCT FREQ
60/64	.0	.0	.0	.0	.0	1.6	.0	.0	1	1.6
55/59	.0	.0	.0	.0	1.6	3.3	13.1	14.8	20	32.8
50/54	.0	.0	.0	1.6	4.9	6.6	16.4	11.5	25	41.0
45/49	.0	.0	.0	.0	3.3	9.8	3.3	8.2	15	24.6
TOTAL	0	0	0	1	6	13	20	21	61	100.0
PCT	.0	.0	.0	1.6	9.8	21.3	32.8	34.4		

TABLE 14

PERCENT FREQUENCY OF WIND DIRECTION BY TEMP

	N	NE	E	SE	S	SW	W	NW	VAR	CALM
12	.0	.0	.0	.0	.0	.0	.0	.4	.0	.0
11.9	3.7	.0	.0	.0	.0	.0	7.8	9.4	.0	.0
4.5	3.7	3.3	.0	1.6	10.2	12.7	4.9	.0	.0	.0
.0	.0	.0	1.6	2.5	9.8	10.7	.0	.0	.0	.0
17.6	7.4	3.3	1.6	4.1	20.1	31.1	14.8	.0	.0	.0

TABLE 15

MEANS, EXTREMES AND PERCENTILES OF TEMP (DEG F) BY HOUR

HOUR (GMT)	MAX	99%	95%	50%	5%	1%	MIN	MEAN	TOTAL OBS
00003	59	58	58	53	48	46	46	52.7	58
06009	62	61	59	53	47	45	45	53.2	76
12015	58	57	57	54	48	45	45	52.6	43
18021	59	58	57	53	46	44	44	52.3	78
TOT	62	59	58	53	47	45	44	52.7	265

TABLE 16

PERCENT FREQUENCY OF RELATIVE HUMIDITY BY HOUR

HOUR (GMT)	0-29	30-59	60-69	70-79	80-89	90-100	MEAN	TOTAL OBS
00003	.0	6.3	.0	18.8	50.0	25.0	83	16
06009	.0	.0	11.8	41.2	23.5	23.5	81	17
12015	.0	.0	14.3	14.3	28.6	42.9	86	14
18021	.0	.0	13.3	6.7	33.3	46.7	86	15
TOT	0	1	6	13	21	21	84	62

MAY

PERIOD: (PRIMARY) 1885-1970  
(OVER-ALL) 1875-1970

TABLE 17

AREA 0011 TASMANIA WEST  
43.45 144.1EPCT FREQ OF AIR TEMPERATURE (DEG F) AND THE OCCURRENCE OF FOG (WITHOUT PRECIPITATION)  
VS AIR-SEA TEMPERATURE DIFFERENCE (DEG F)

AIR-SEA TMP DIF	41 44	45 48	49 52	53 56	57 60	61 64	TOT	W FOG	WD FOG
9/10	.0	.0	.0	.0	.5	.0	1	.0	.5
6	.0	.0	.0	.0	.0	.5	1	.0	.5
4	.0	.0	.0	.0	1.1	.0	2	.0	1.1
3	.0	.0	.0	1.6	1.1	.0	5	.0	2.6
2	.0	.0	1.1	6.9	1.0	.0	18	.0	9.5
1	.0	.0	3.2	11.6	2.1	.0	32	.5	16.4
0	.0	.0	4.2	13.8	.5	.0	35	2.1	16.4
-1	.0	1.1	7.4	6.9	.5	.0	30	.5	15.3
-2	.0	1.6	4.8	1.6	.0	.0	15	.0	7.9
-3	.0	1.1	5.3	1.6	.0	.0	15	.5	7.4
-4	.0	1.6	2.6	.5	.0	.0	9	.5	4.2
-5	.0	2.1	4.2	1.1	.0	.0	14	.0	7.4
-6	.0	1.6	.5	.0	.0	.0	4	.0	2.1
-7/-8	.5	1.1	1.1	.5	.0	.0	6	.0	3.2
-9/-10	.0	1.1	.0	.0	.0	.0	2	.0	1.1
TOTAL	1	21	65	87	14	1	189	8	181
PCT	.5	11.1	34.4	46.0	7.4	.5	100.0	4.2	95.8

PERIOD: (OVER-ALL) 1963-1970

TABLE 18

PCT FREQ OF WIND SPEED (KTS) AND DIRECTION VERSUS SEA HEIGHTS (FT)

HGT	N						PCT	NE						PCT
	1-3	4-10	11-21	22-33	34-47	48+		1-3	4-10	11-21	22-33	34-47	48+	
<1	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
1-2	.0	1.6	.0	.0	.0	.0	1.6	.0	2.1	2.1	.0	.0	.0	4.2
3-4	.0	2.1	1.6	.0	.0	.0	3.6	.0	.0	.0	.0	.0	.0	.0
5-6	.0	1.6	1.6	1.6	.0	.0	4.7	.0	2.6	.0	.5	.0	.0	3.1
7	.0	.0	2.1	.0	.0	.0	2.1	.0	.0	.0	.0	.0	.0	.0
8-9	.0	.0	2.1	.0	.0	.0	2.1	.0	.0	.0	.0	.0	.0	.0
10-11	.0	.0	2.1	.0	2.1	.0	4.2	.0	.0	.0	.0	.0	.0	.0
12	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
13-16	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
17-19	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
20-22	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
23-25	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
26-32	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
33-40	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
41-48	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
49-60	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
61-70	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
71-86	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
87+	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
TOT PCT	.0	5.2	9.4	1.6	2.1	.0	18.2	.0	4.7	2.1	.5	.0	.0	7.3

HGT	E						PCT	SE						PCT
	1-3	4-10	11-21	22-33	34-47	48+		1-3	4-10	11-21	22-33	34-47	48+	
<1	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
1-2	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
3-4	.0	4.2	.0	.0	.0	.0	4.2	.0	.0	.0	.0	.0	.0	.0
5-6	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
7	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
8-9	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
10-11	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
12	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
13-16	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
17-19	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
20-22	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
23-25	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
26-32	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
33-40	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
41-48	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
49-60	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
61-70	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
71-86	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
87+	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
TOT PCT	.0	4.2	.0	.0	.0	.0	4.2	.0	.0	.0	.0	.0	.0	.0



PERIOD: (OVER-ALL) 1963-1970

MAY

TABLE 18 (CONT)

AREA 0011 TASMANIA WEST  
43.45 144.1E

PCT FREQ OF WIND SPEED (KTS) AND DIRECTION VERSUS SEA HEIGHTS (FT)

HGT	1-3	4-10	11-21	22-33	34-47	48+	PCT	1-3	4-10	11-21	22-33	34-47	48+	PCT
<1	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
1-2	.0	2.1	.0	.0	.0	.0	2.1	.0	.0	2.1	.0	.0	.0	2.1
3-4	.0	.0	.0	.0	.0	.0	.0	.0	.0	2.1	.0	.0	.0	2.1
5-6	.0	.0	.0	.0	.0	.0	.0	.0	.0	2.1	.0	.0	.0	2.1
7	.0	.0	.0	.0	.0	.0	.0	.0	.0	2.1	.0	.0	.0	2.1
8-9	.0	.0	.0	.0	.0	.0	.0	.0	.0	2.6	2.1	.0	.0	4.7
10-11	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.5	.0	.0	.5
12	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
13-16	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
17-19	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
20-22	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	2.1	.0	.0	2.1
23-25	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.5	.5
26-32	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
33-40	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
41-48	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
49-60	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
61-70	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
71-86	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
87+	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
TOT PCT	.0	2.1	.0	.0	.0	.0	2.1	.0	.0	8.9	4.7	.0	.5	14.1

HGT	1-3	4-10	11-21	22-33	34-47	48+	PCT	1-3	4-10	11-21	22-33	34-47	48+	PCT	TOTAL PCT
<1	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
1-2	.0	.0	.0	.0	.0	.0	.0	.0	.5	.0	.0	.0	.0	.5	.5
3-4	.0	2.1	.0	.0	.0	.0	2.1	.0	6.3	4.7	.0	.0	.0	10.9	10.9
5-6	.0	.0	3.6	2.1	.0	.0	5.7	.0	4.2	3.1	.0	.0	.0	7.3	7.3
7	.0	.0	3.6	4.2	.0	.0	7.8	.0	.0	.0	.0	.0	.0	.0	.0
8-9	.0	.0	2.1	3.6	.0	.0	5.7	.0	.0	.0	.0	.0	.0	.0	.0
10-11	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
12	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
13-16	.0	.0	.0	.0	6.3	4.2	10.4	.0	.0	.0	.0	.0	.0	.0	.0
17-19	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
20-22	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
23-25	.0	.0	.0	.0	.0	3.6	3.6	.0	.0	.0	.0	.0	.0	.0	.0
26-32	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
33-40	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
41-48	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
49-60	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
61-70	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
71-86	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
87+	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
TOT PCT	.0	2.1	9.4	9.9	6.3	7.8	35.4	.0	10.9	7.8	.0	.0	.0	18.8	100.0

WIND SPEED (KTS) VS SEA HEIGHT (FT)

HGT	0-3	4-10	11-21	22-33	34-47	48+	PCT	TOT OBS
<1	.0	.0	.0	.0	.0	.0	.0	.0
1-2	.0	6.3	4.2	.0	.0	.0	10.4	10.4
3-4	.0	14.6	8.3	.0	.0	.0	22.9	22.9
5-6	.0	8.3	10.4	4.2	.0	.0	22.9	22.9
7	.0	.0	8.3	6.3	.0	.0	14.6	14.6
8-9	.0	.0	4.2	.0	.0	.0	8.3	8.3
10-11	.0	.0	2.1	.0	2.1	.0	4.2	4.2
12	.0	.0	.0	.0	.0	.0	.0	.0
13-16	.0	.0	.0	.0	6.3	4.2	10.4	10.4
17-19	.0	.0	.0	.0	.0	.0	.0	.0
20-22	.0	.0	.0	2.1	.0	.0	2.1	2.1
23-25	.0	.0	.0	.0	.0	4.2	4.2	4.2
26-32	.0	.0	.0	.0	.0	.0	.0	.0
33-40	.0	.0	.0	.0	.0	.0	.0	.0
41-48	.0	.0	.0	.0	.0	.0	.0	.0
49-60	.0	.0	.0	.0	.0	.0	.0	.0
61-70	.0	.0	.0	.0	.0	.0	.0	.0
71-86	.0	.0	.0	.0	.0	.0	.0	.0
87+	.0	.0	.0	.0	.0	.0	.0	.0
TOT PCT	.0	29.2	37.5	16.7	8.3	8.3	100.0	48

PERIOD: (OVER-ALL) 1953-1970

TABLE 19

PERCENT FREQUENCY OF WAVE HEIGHT (FT) VS WAVE PERIOD (SECONDS)

PERIOD (SEC)	<1	1-2	3-4	5-6	7	8-9	10-11	12	13-16	17-19	20-22	23-25	26-32	33-40	41-48	49-60	61-70	71-86	87+	TOTAL	MEAN HGT
<6	3.3	.0	5.0	1.7	3.3	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	8	4
6-7	.0	.0	.0	3.3	3.3	5.0	.0	.0	1.7	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	8	8
8-9	.0	.0	.0	11.7	3.3	10.0	1.7	5.0	5.0	.0	8.3	5.0	.0	.0	.0	.0	.0	.0	.0	30	12
10-11	.0	.0	1.7	.0	1.7	.0	.0	1.7	3.3	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	5	10
12-13	.0	.0	3.3	.0	.0	.0	.0	.0	3.3	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	4	9
>13	.0	.0	.0	.0	1.7	1.7	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	2	8
INDET	.0	.0	.0	1.7	.0	3.3	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	3	7
TOTAL	2	0	6	11	8	12	1	4	8	0	5	3	0	0	0	0	0	0	0	60	9
PCT	3.3	.0	10.0	18.3	13.3	20.0	1.7	6.7	13.3	.0	8.3	5.0	.0	.0	.0	.0	.0	.0	.0	100.0	

PERIOD: (PRIMARY) 1878-1969  
(OVER-ALL) 1858-1969

JUNE

AREA 0011 TASMANIA WEST  
43.55 144.0E

TABLE 1

PERCENT FREQUENCY OF WEATHER OCCURRENCE BY WIND DIRECTION

WIND DIR	PRECIPITATION TYPE							OTHER WEATHER PHENOMENA							
	RAIN	RAIN SHWR	DRZL	FRZG PCPN	SNOW	OTHER FRZN PCPN	HAIL	PCPN AT OB TIME	PCPN PAST HOUR	THDR LTNG	FGG WD PCPN	FGG WD PCPN PAST HR	SMOKE HAZE	SPRAY BLWG SNOW	NO SIG WEA
N	4.2	7.5	2.8	.0	.0	.0	.0	14.5	1.4	.0	3.7	.0	.0	.0	80.4
NE	14.3	8.6	2.9	.0	.0	.0	.0	25.7	.0	.0	.0	.0	.0	.0	74.3
E	.0	26.3	.0	.0	.0	.0	.0	26.3	.0	.0	31.6	.0	.0	.0	42.1
SE	4.9	43.9	.0	.0	.0	.0	.0	48.8	.0	4.9	.0	.0	.0	.0	51.2
S	9.1	38.6	.0	.0	.0	.0	.0	47.7	.0	.0	.0	.0	.0	.0	52.3
SW	.0	28.6	.0	.0	.0	.0	.0	28.6	.0	.0	2.2	.0	.0	.0	69.2
W	.0	26.8	8.1	.0	.0	.0	6.5	41.5	6.3	1.6	1.6	.0	.0	.0	48.8
NW	8.2	20.9	1.8	.0	.0	.0	.0	30.9	.9	1.8	3.6	.0	.0	.0	62.7
VAR	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
CALM	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
TOT PCT	4.9	22.5	2.5	.0	.0	.0	1.0	30.9	1.5	1.0	3.4	.0	.0	.0	63.7
TOT OBS:	204														

TABLE 2

PERCENT FREQUENCY OF WEATHER OCCURRENCE BY HOUR

HOUR (GMT)	PRECIPITATION TYPE							OTHER WEATHER PHENOMENA							
	RAIN	RAIN SHWR	DRZL	FRZG PCPN	SNOW	OTHER FRZN PCPN	HAIL	PCPN AT OB TIME	PCPN PAST HOUR	THDR LTNG	FGG WD PCPN	FGG WD PCPN PAST HR	SMOKE HAZE	SPRAY BLWG SNOW	NO SIG WEA
00003	7.0	20.9	.0	.0	.0	.0	2.3	30.2	2.3	.0	2.3	.0	.0	.0	65.1
06009	7.4	20.4	1.9	.0	.0	.0	.0	29.6	.0	1.9	1.9	.0	.0	.0	68.5
12015	1.9	22.6	3.8	.0	.0	.0	.0	28.3	.0	.0	3.8	.0	.0	.0	67.9
18021	3.2	22.6	3.2	.0	.0	.0	1.6	30.6	3.2	1.6	4.8	.0	.0	.0	59.7
TOT PCT	4.7	21.7	2.4	.0	.0	.0	.9	29.7	1.4	.9	3.3	.0	.0	.0	65.1
TOT OBS:	212														

TABLE 3

PERCENTAGE FREQUENCY OF WIND DIRECTION BY SPEED AND BY HOUR

WIND DIR	WIND SPEED (KNOTS)							48+	TOTAL OBS	PCT FREQ	MEAN SPD	HOUR (GMT)							
	0-3	4-10	11-21	22-33	34-47	00	03					06	09	12	15	18	21		
N	.8	3.7	13.3	5.2	1.3	.0		24.2	17.6	29.7	21.1	25.7	45.5	20.5	32.4	13.6	16.7		
NE	.8	1.2	4.8	1.4	.0	.0		8.1	14.2	.0	7.9	13.2	4.5	8.8	4.1	10.2	11.1		
E	1.2	.4	2.9	.4	.0	.0		4.8	12.2	.0	6.1	.0	2.3	.0	8.1	8.0	7.4		
SE	.6	1.4	3.5	3.1	1.6	.2		10.3	20.8	18.8	10.5	13.2	15.9	.0	12.2	6.8	5.6		
S	.0	1.0	4.3	2.5	1.6	.6		9.9	23.8	.0	11.0	13.2	13.6	.0	12.2	5.7	15.7		
SW	2.5	2.7	5.2	1.1	.4	.0		11.9	12.7	18.8	18.0	7.9	11.4	11.8	4.1	9.7	15.7		
W	.2	.8	5.8	4.2	2.1	1.0		14.1	23.8	20.3	7.9	9.9	4.5	35.3	13.5	22.2	11.1		
NW	.2	1.0	7.8	5.0	1.3	1.4		16.7	23.6	12.5	17.5	17.1	2.3	23.5	13.5	23.9	16.7		
VAR	.0	.0	.0	.0	.0	.0		.0	.0	.0	.0	.0	.0	.0	.0	.0	.0		
CALM	.0	.0	.0	.0	.0	.0		.0	.0	.0	.0	.0	.0	.0	.0	.0	.0		
TOT OBS	16	31	123	59	21	8	258		19.3	16	57	38	22	17	37	44	27		
TOT PCT	6.2	12.0	47.7	22.9	8.1	3.1	100.0			100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0		

TABLE 3A

WIND DIR	WIND SPEED (KNOTS)					TOTAL OBS	PCT FREQ	MEAN SPD	HOUR (GMT)			
	0-6	7-16	17-27	28-40	41+				00	06	12	18
N	1.7	8.9	10.0	3.3	.3	24.2	17.6	22.9	32.9	28.7	14.8	
NE	1.4	4.3	1.7	.8	.0	8.1	14.2	6.2	10.0	5.6	10.6	
E	1.6	1.4	1.9	.0	.0	4.8	12.2	4.8	.8	5.6	7.7	
SE	1.6	2.1	3.9	2.1	.6	10.3	20.8	12.3	14.2	8.3	6.3	
S	.2	3.8	1.8	2.7	1.4	9.9	23.8	8.6	13.3	8.3	9.5	
SW	4.1	3.2	3.7	1.0	.0	11.9	12.7	18.2	9.2	6.5	12.0	
W	.2	4.2	4.8	3.5	1.4	14.1	23.8	10.6	7.9	20.4	18.0	
NW	.2	2.8	8.9	3.3	1.5	16.7	23.6	16.4	11.7	16.7	21.1	
VAR	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
CALM	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
TOT OBS	28	79	95	43	13	258	19.3	73	60	54	71	
TOT PCT	10.9	30.6	36.8	16.7	5.0	100.0		100.0	100.0	100.0	100.0	

PERIOD: (PRIMARY) 1878-1969  
(OVER-ALL) 1858-1969

JUNE

AREA 0011 TASMANIA WEST  
43.55 144.0E

TABLE 4

PERCENTAGE FREQUENCY OF WIND SPEED BY HOUR (GMT)

HOUR	CALM	WIND SPEED (KNOTS)					48+	PCT FREQ	TOTAL OBS	
		1-3	4-10	11-21	22-33	34-47				
00003	.0	4.1	13.7	45.2	21.9	11.0	4.1	20.5	100.0	73
06009	.0	10.0	8.3	38.3	31.7	8.3	3.3	20.2	100.0	60
12015	.0	1.9	13.0	53.7	22.2	7.4	1.9	19.2	100.0	54
18021	.0	8.5	12.7	53.5	16.9	5.6	2.8	17.3	100.0	71
TOT	0	16	31	123	59	21	8	19.3		258
PCT	.0	6.2	12.0	47.7	22.9	8.1	3.1	100.0		

TABLE 5

PCT FREQ OF TOTAL CLOUD AMOUNT (EIGHTHS)  
BY WIND DIRECTION

WIND DIR	0-2	3-4	5-7	8 & OBSCD	TOTAL OBS	MEAN CLOUD COVER
N	.0	.0	8.3	8.3		7.5
NE	.0	2.8	5.6	1.4		6.0
E	.0	.0	.0	.0		.0
SE	.0	.0	2.8	.0		7.0
S	.0	.0	.0	.0		.0
SW	2.8	2.8	3.5	.0		3.5
W	4.2	2.8	19.4	10.4		5.6
NW	1.4	.0	7.6	16.0		7.1
VAR	.0	.0	.0	.0		.0
CALM	.0	.0	.0	.0		.0
TOT OBS	3	3	17	13	36	6.2
TOT PCT	8.3	8.3	47.2	36.1	100.0	

TABLE 6

PERCENTAGE FREQUENCY OF CEILING HEIGHTS (FT, NH >4/8)  
AND OCCURRENCE OF NH <5/8 BY WIND DIRECTION

000	150	300	600	1000	2000	3500	5000	6500	8000+	NH <5/8	TOTAL
149	299	599	999	1999	3999	4999	6499	7999		ANY HGT	OBS
.0	.0	.0	7.6	4.9	1.4	.0	.0	.0	.0	2.8	
.0	.0	.0	.0	2.8	4.2	.0	.0	.0	.0	2.8	
.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
.0	.0	.0	.0	.0	.0	2.8	.0	.0	.0	.0	
.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
.0	.0	.0	.0	.0	2.8	.0	.0	.0	.0	6.3	
.0	.0	.0	7.6	6.9	4.9	2.8	.0	.0	.0	14.6	
.0	.0	.0	9.7	2.1	6.3	.0	.0	.0	.0	6.9	
.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
.0	.0	.0	9	.0	.0	.0	.0	.0	.0	.0	
.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
.0	.0	.0	25.0	16.7	19.4	5.6	.0	.0	.0	33.3	35

TABLE 7

CUMULATIVE PCT FREQ OF SIMULTANEOUS OCCURRENCE  
OF CEILING HEIGHT (NH >4/8) AND VSBY (NM)

CEILING (FEET)	VSBY (NM)							
	>10	>5	>2	>1	>1/2	>1/4	>50YD	>0
>5000	.0	.0	.0	.0	.0	.0	.0	.0
>5000	.0	.0	.0	.0	.0	.0	.0	.0
>3500	5.3	5.3	5.3	5.3	5.3	5.3	5.3	5.3
>2000	21.1	23.7	23.7	23.7	23.7	23.7	23.7	23.7
>1000	31.6	34.2	36.8	39.5	39.5	39.5	39.5	39.5
>600	47.4	55.3	60.5	63.2	63.2	63.2	63.2	63.2
>300	47.4	55.3	60.5	63.2	63.2	63.2	63.2	63.2
>150	47.4	55.3	60.5	63.2	63.2	63.2	63.2	63.2
>0	47.4	55.3	60.5	63.2	63.2	63.2	63.2	63.2
TOTAL	18	21	23	24	24	24	24	24

TOTAL NUMBER OF OBS: 38

PCT FREQ NH <5/8: 36.8

TABLE 7A

PERCENTAGE FREQ OF LOW CLOUDS (EIGHTHS)

0	1	2	3	4	5	6	7	8	OBSCD	TOTAL OBS
5.1	5.1	10.3	7.7	7.7	10.3	12.8	17.9	23.1	.0	39

PERIOD: (PRIMARY) 1878-1969  
(OVER-ALL) 1858-1969

JUNE

AREA 0011 TASMANIA WEST  
43.55 144.0E

TABLE 8

PERCENT FREQ OF WIND DIRECTION VS OCCURRENCE OR NON-OCCURRENCE OF  
PRECIPITATION WITH VARYING VALUES OF VISIBILITY

VSBY (NM)		N	NE	E	SE	S	SW	W	NW	VAR	CALM	PCT	TOTAL OBS
<1/2	PCP	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
	NO PCP	.0	.0	.0	.0	.0	.0	.0	.5	.0	.0	.0	.5
	TOT %	.0	.0	.0	.0	.0	.0	.0	.5	.0	.0	.0	.5
1/2<1	PCP	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
	NO PCP	1.0	.0	1.5	.0	.0	.0	.0	.0	.0	.0	.0	2.5
	TOT %	1.0	.0	1.5	.0	.0	.0	.0	.0	.0	.0	.0	2.5
1<2	PCP	.0	.0	.0	.0	.0	.0	.5	.0	.0	.0	.0	.5
	NO PCP	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
	TOT %	.0	.0	.0	.0	.0	.0	.5	.0	.0	.0	.0	.5
2<5	PCP	.4	.0	.0	.0	.0	.0	.2	.4	.0	.0	.0	1.0
	NO PCP	.0	.0	.0	.0	.0	.0	.7	.2	.0	.0	.0	1.0
	TOT %	.4	.0	.0	.0	.0	.0	1.0	.6	.0	.0	.0	2.0
5<10	PCP	3.5	2.2	.7	5.0	5.2	3.2	4.1	3.8	.0	.0	.0	27.7
	NO PCP	18.6	4.7	2.0	6.7	5.3	5.8	5.4	5.0	.0	.0	.0	51.5
	TOT %	22.0	6.9	2.7	9.7	10.5	9.0	9.5	8.8	.0	.0	.0	79.2
10+	PCP	.0	.0	.5	.0	.0	.0	.5	.0	.0	.0	.0	1.0
	NO PCP	3.1	1.7	.0	.5	.4	2.2	2.7	3.7	.0	.0	.0	14.4
	TOT %	3.1	1.7	.5	.5	.4	2.2	3.2	3.7	.0	.0	.0	15.3
TOT OBS													
TOT PCT		26.5	8.7	4.7	10.1	10.9	11.3	14.2	13.6	.0	.0	100.0	202

TABLE 9

PERCENT FREQ OF WIND DIRECTION VS WIND SPEED  
WITH VARYING VALUES OF VISIBILITY

VSBY (NM)	SPD KTS	N	NE	E	SE	S	SW	W	NW	VAR	CALM	PCT	TOTAL OBS
<1/2	0-3	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
	4-10	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
	11-21	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
	22+	.0	.0	.0	.0	.0	.0	.0	.5	.0	.0	.0	.5
	TOT %	.0	.0	.0	.0	.0	.0	.0	.5	.0	.0	.0	.5
1/2<1	0-3	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
	4-10	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
	11-21	1.0	.0	1.0	.0	.0	.0	.0	.0	.0	.0	.0	2.0
	22+	.0	.0	.5	.0	.0	.0	.0	.0	.0	.0	.0	.5
	TOT %	1.0	.0	1.5	.0	.0	.0	.0	.0	.0	.0	.0	2.5
1<2	0-3	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
	4-10	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
	11-21	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
	22+	.0	.0	.0	.0	.0	.5	.0	.5	.0	.0	.0	.5
	TOT %	.0	.0	.0	.0	.0	.5	.0	.5	.0	.0	.0	.5
2<5	0-3	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
	4-10	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
	11-21	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
	22+	.4	.0	.0	.0	.0	.0	1.0	.6	.0	.0	.0	2.0
	TOT %	.4	.0	.0	.0	.0	.0	1.0	.6	.0	.0	.0	2.0
5<10	0-3	1.0	1.0	1.0	.7	.0	2.2	.2	.2	.0	.0	.0	6.4
	4-10	3.2	1.0	.5	1.2	1.2	2.2	.7	.2	.0	.0	.0	10.4
	11-21	13.1	3.2	1.2	2.5	4.6	4.6	4.8	4.6	.0	.0	.0	38.6
	22+	4.7	1.7	.0	5.2	4.7	.0	3.7	3.7	.0	.0	.0	23.8
	TOT %	22.0	6.9	2.7	9.7	10.5	9.0	9.5	8.8	.0	.0	.0	79.2
10+	0-3	.0	.0	.5	.0	.0	.0	.0	.0	.0	.0	.0	.5
	4-10	.5	.5	.0	.5	.0	.0	.5	.0	.0	.0	.0	2.0
	11-21	1.1	1.2	.0	.0	.4	1.1	1.4	2.2	.0	.0	.0	7.4
	22+	1.5	.0	.0	.0	.0	1.1	1.9	1.0	.0	.0	.0	5.4
	TOT %	3.1	1.7	.5	.5	.4	2.2	3.2	3.7	.0	.0	.0	15.3
TOT OBS													
TOT PCT		26.5	8.7	4.7	10.1	10.9	11.3	14.2	13.6	.0	.0	100.0	202

JUNE

PERIOD: (PRIMARY) 1878-1969  
(OVER-ALL) 1858-1969AREA 0011 TASMANIA WEST  
43.55 144.0E

TABLE 10

PERCENT FREQUENCY OF CEILING HEIGHTS (FEET, NH >4/8) AND  
OCCURRENCE OF NH <5/8 BY HOUR

HRUR (GMT)	000 149	100 299	300 599	600 999	1000 1999	2000 3499	3500 4999	5000 6499	6500 7999	8000+	TOTAL	NH <5/8 ANY HGT	TOTAL OBS
00003	.0	.0	.0	20.0	30.0	20.0	10.0	.0	.0	.0	80.0	20.0	10
06009	.0	.0	.0	33.3	22.2	22.2	.0	.0	.0	.0	77.8	22.2	9
12015	.0	.0	.0	22.2	11.1	11.1	.0	.0	.0	.0	44.4	55.6	9
18021	.0	.0	.0	20.0	.0	20.0	10.0	.0	.0	.0	50.0	50.0	10
TOT	0	0	0	9	6	7	2	0	0	0	24	14	38
PCT	.0	.0	.0	23.7	15.8	18.4	5.3	.0	.0	.0	63.2	36.8	100.0

TABLE 11

PERCENT FREQUENCY VSBY (NH) BY HOUR

HRUR (GMT)	<1/2	1/2<1	1<2	2<5	5<10	10+	TOTAL OBS
00003	.0	2.3	2.3	.0	67.4	27.9	43
06009	.0	1.9	.0	5.7	84.9	7.5	53
12015	.0	1.9	.0	1.9	82.7	13.5	52
18021	1.6	3.2	.0	.0	79.0	16.1	62
TOT	1	5	1	4	166	33	210
PCT	.5	2.4	.5	1.9	79.0	15.7	100.0

TABLE 12

CUMULATIVE PCT FREQ OF RANGES OF VSBY (NH) AND/OR  
CEILING HGT (FEET, NH >4/8), BY HOUR

HRUR (GMT)	<150 <50YD	<600 <1	<1000 <5	1000+ AND 5+	NH <5/8 AND 5+	TOTAL OBS
00003	.0	.0	30.0	50.0	20.0	10
06009	.0	.0	55.6	33.3	11.1	9
12015	.0	.0	33.3	22.2	44.4	9
18021	.0	.0	20.0	30.0	50.0	10
TOT	0	0	13	13	12	38
PCT	.0	.0	34.2	34.2	31.6	100.0

TABLE 13

PERCENT FREQUENCY OF RELATIVE HUMIDITY BY TEMP

TEMP F	0-29	30-39	40-49	50-59	60-69	70-79	80-89	90-100	TOTAL OBS	PCT FREQ
55/59	.0	.0	.0	.0	.0	5.3	.0	7.9	5	13.2
50/54	.0	.0	.0	.0	2.6	15.8	21.1	15.8	21	55.3
45/49	.0	.0	.0	.0	2.6	5.3	15.8	7.9	12	31.6
TOTAL	0	0	0	0	2	10	14	12	38	100.0
PCT	.0	.0	.0	.0	5.3	26.3	36.8	31.6		

TABLE 14

PERCENT FREQUENCY OF WIND DIRECTION BY TEMP

	N	NE	E	SE	S	SW	W	NW	VAR	CALM
4.6	.0	.0	.0	.0	.0	.0	.0	8.6	.0	.0
11.2	3.9	.0	.0	.0	2.0	3.3	17.1	17.8	.0	.0
.0	5.3	.0	2.6	2.0	10.5	11.2	.0	.0	.0	.0
15.8	9.2	.0	2.6	3.9	13.8	28.3	26.3	.0	.0	.0

TABLE 15

MEANS, EXTREMES AND PERCENTILES OF TEMP (DEG F) BY HOUR

HRUR (GMT)	MAX	99%	95%	50%	5%	1%	MIN	MEAN	TOTAL OBS
00003	56	55	55	52	47	46	46	51.3	71
06009	57	56	55	51	48	45	45	51.3	62
12015	57	56	56	50	46	45	45	50.3	54
18021	55	54	54	50	46	43	43	50.1	68
TOT	57	56	55	51	47	45	43	50.8	255

TABLE 16

PERCENT FREQUENCY OF RELATIVE HUMIDITY BY HOUR

HRUR (GMT)	0-29	30-59	60-69	70-79	80-89	90-100	MEAN	TOTAL OBS
00003	.0	.0	8.3	25.0	50.0	16.7	82	12
06009	.0	.0	.0	25.0	50.0	25.0	86	8
12015	.0	.0	.0	.0	44.4	55.6	89	9
18021	.0	.0	9.1	45.5	18.2	27.3	81	11
TOT	0	0	2	10	16	12	84	40



## JUNE

PERIOD: (PRIMARY) 1878-1969  
(OVER-ALL) 1858-1969

TABLE 17

AREA 0011 TASMANIA WEST  
43.55 144.0EPCT FREQ OF AIR TEMPERATURE (DEG F) AND THE OCCURRENCE OF FOG (WITHOUT PRECIPITATION)  
VS AIR-SEA TEMPERATURE DIFFERENCE (DEG F)

AIR-SEA TMP DIF	41 44	45 48	49 52	53 56	57 60	TOT	W FOG	WD FOG
5	.0	.0	.0	.0	.5	1	.0	.5
4	.0	.0	.0	.5	.0	1	.0	.5
3	.0	.0	.0	.5	.0	1	.0	.5
2	.0	.0	1.5	2.1	.0	7	.0	3.6
1	.0	.0	6.2	3.6	.5	20	.0	10.3
0	.0	.0	9.7	7.2	.0	33	.5	16.4
-1	.0	.5	6.7	3.6	.0	21	.5	10.3
-2	.0	2.6	10.3	.5	.0	26	.5	12.8
-3	.5	.5	12.8	.5	.0	28	.5	12.8
-4	.0	5.1	5.6	1.5	.0	24	.5	11.8
-5	.5	2.1	4.1	.0	.0	13	1.0	5.6
-6	.0	1.5	2.6	1.0	.0	10	.0	5.1
-7/-8	.0	2.6	1.0	.0	.0	7	.0	3.6
-9/-10	.0	1.0	.0	.0	.0	2	.0	1.0
-11/-13	.0	.5	.0	.0	.0	1	.0	.5
TOTAL	2	32	118	41	2	195	7	188
PCT	1.0	16.4	60.5	21.0	1.0	100.0	3.6	96.4

PERIOD: (OVER-ALL) 1963-1969

TABLE 18

PCT FREQ OF WIND SPEED (KTS) AND DIRECTION VERSUS SEA HEIGHTS (FT)

HGT	1-3	4-10	11-21	22-33	34-47	48+	PCT	1-3	4-10	11-21	22-33	34-47	48+	PCT
<1	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
1-2	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
3-4	.0	.0	.0	.0	.0	.0	.0	.0	.0	4.5	.0	.0	.0	4.5
5-6	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
7	.0	.0	3.4	.0	.0	.0	3.4	.0	.0	.0	.0	.0	.0	.0
8-9	.0	.0	.0	4.5	.0	.0	4.5	.0	.0	.0	.0	.0	.0	.0
10-11	.0	.0	.0	4.5	.0	.0	4.5	.0	.0	.0	.0	.0	.0	.0
12	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
13-16	.0	.0	.0	4.5	3.4	.0	8.0	.0	.0	.0	.0	.0	.0	.0
17-19	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
20-22	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
23-25	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
26-32	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
33-40	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
41-48	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
49-60	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
61-70	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
71-86	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
87+	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
TOT PCT	.0	.0	3.4	13.6	3.4	.0	20.5	.0	.0	4.5	.0	.0	.0	4.5

HGT	1-3	4-10	11-21	22-33	34-47	48+	PCT	1-3	4-10	11-21	22-33	34-47	48+	PCT
<1	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
1-2	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
3-4	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
5-6	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
7	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
8-9	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
10-11	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
12	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
13-16	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
17-19	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
20-22	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
23-25	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
26-32	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
33-40	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
41-48	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
49-60	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
61-70	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
71-86	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
87+	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
TOT PCT	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0

PERIOD: (OVER-ALL) 1963-1969

JUNE

AREA 0011 TASMANIA WEST  
43.55 144.0E

TABLE 18 (CONT)

PCT FREQ OF WIND SPEED (KTS) AND DIRECTION VERSUS SEA HEIGHTS (FT)

HGT	1-3	4-10	11-21	22-33	34-47	48+	PCT	1-3	4-10	11-21	22-33	34-47	48+	PCT	TOT PCT
<1	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
1-2	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
3-4	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
5-6	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
7	.0	.0	.0	.0	.0	.0	.0	.0	.0	4.5	.0	.0	.0	4.5	.0
8-9	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
10-11	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
12	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
13-16	.0	.0	.0	.0	.0	.0	.0	.0	.0	4.5	1.1	4.5	.0	10.2	.0
17-19	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
20-22	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
23-25	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
26-32	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
33-40	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
41-48	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
49-60	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
61-70	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
71-86	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
87+	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
TOT PCT	.0	.0	.0	.0	.0	.0	.0	.0	.0	9.1	1.1	4.5	.0	14.8	.0

HGT	1-3	4-10	11-21	22-33	34-47	48+	PCT	1-3	4-10	11-21	22-33	34-47	48+	PCT	TOT PCT
<1	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
1-2	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
3-4	.0	.0	3.4	.0	.0	.0	3.4	.0	4.5	1.1	.0	.0	.0	5.7	.0
5-6	.0	.0	3.4	.0	.0	.0	3.4	.0	.0	5.7	9.1	.0	.0	14.8	.0
7	.0	.0	4.5	.0	.0	.0	4.5	.0	.0	5.7	.0	.0	.0	3.7	.0
8-9	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
10-11	.0	.0	.0	9.1	9.1	.0	18.2	.0	.0	.0	.0	.0	.0	.0	.0
12	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
13-16	.0	.0	.0	3.4	.0	.0	3.4	.0	.0	.0	.0	1.1	.0	1.1	.0
17-19	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
20-22	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
23-25	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
26-32	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
33-40	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
41-48	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
49-60	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
61-70	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
71-86	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
87+	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
TOT PCT	.0	.0	11.4	12.5	9.1	.0	33.0	.0	4.5	12.5	9.1	1.1	.0	27.3	100.0

WIND SPEED (KTS) VS SEA HEIGHT (FT)

HGT	0-3	4-10	11-21	22-33	34-47	48+	PCT	TOT OBS
<1	.0	.0	.0	.0	.0	.0	.0	.0
1-2	.0	4.3	.0	.0	.0	.0	4.3	.0
3-4	.0	4.3	8.7	.0	.0	.0	13.0	.0
5-6	.0	.0	8.7	8.7	.0	.0	17.4	.0
7	.0	.0	17.4	.0	.0	.0	17.4	.0
8-9	.0	.0	.0	4.3	.0	.0	4.3	.0
10-11	.0	.0	.0	13.0	8.7	.0	21.7	.0
12	.0	.0	.0	.0	.0	.0	.0	.0
13-16	.0	.0	4.3	8.7	8.7	.0	21.7	.0
17-19	.0	.0	.0	.0	.0	.0	.0	.0
20-22	.0	.0	.0	.0	.0	.0	.0	.0
23-25	.0	.0	.0	.0	.0	.0	.0	.0
26-32	.0	.0	.0	.0	.0	.0	.0	.0
33-40	.0	.0	.0	.0	.0	.0	.0	.0
41-48	.0	.0	.0	.0	.0	.0	.0	.0
49-60	.0	.0	.0	.0	.0	.0	.0	.0
61-70	.0	.0	.0	.0	.0	.0	.0	.0
71-86	.0	.0	.0	.0	.0	.0	.0	.0
87+	.0	.0	.0	.0	.0	.0	.0	.0
TOT PCT	.0	8.7	39.1	34.8	17.4	.0	100.0	23

PERIOD: (OVER-ALL) 1951-1969

TABLE 19

PERCENT FREQUENCY OF WAVE HEIGHT (FT) VS WAVE PERIOD (SECONDS)

PERIOD (SEC)	<1	1-2	3-4	5-6	7	8-9	10-11	12	13-16	17-19	20-22	23-25	26-32	33-40	41-48	49-60	61-70	71-86	87+	TOTAL	MEAN HGT
<6	.0	3.7	.0	7.4	3.7	7.4	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	6
6-7	.0	.0	3.7	3.7	3.7	.0	.0	3.7	7.4	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	6
8-9	.0	.0	.0	.0	3.7	.0	11.1	.0	14.8	7.4	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	10
10-11	.0	.0	.0	.0	3.7	.0	3.7	.0	3.7	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	3
12-13	.0	.0	.0	.0	.0	.0	3.7	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	1
>13	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	0
INDET	.0	.0	.0	.0	.0	.0	.0	.0	.0	3.7	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	1
TOTAL	0	1	1	3	4	3	4	1	7	3	0	0	0	0	0	0	0	0	0	0	27
PCT	.0	3.7	3.7	11.1	14.8	11.1	14.8	3.7	25.9	11.1	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	100.0

JULY

PERIOD: (PRIMARY) 1886-1968  
(OVER-ALL) 1876-1968AREA 0011 TASMANIA WEST  
43.55 144.3E

TABLE 1

PERCENT FREQUENCY OF WEATHER OCCURRENCE BY WIND DIRECTION

WIND DIR	PRECIPITATION TYPE							OTHER WEATHER PHENOMENA							NO SIG WEA
	RAIN	RAIN SHWR	DRZL	FRZG PCPN	SNOW	OTHER FRZN PCPN	HAIL	PCPN AT DB TIME	PCPN PAST HOUR	THDR LTNG	FGD WD PCPN	FGD WD PCPN PAST HR	SMOKE HAZE	SPRAY BLWG DUST	
N	2.4	22.0	.0	.0	.0	.0	.0	24.4	.0	.0	.0	.0	.0	.0	75.6
NE	4.5	.0	.0	.0	.0	.0	.0	4.5	.0	.0	2.3	.0	.0	.0	93.2
E	7.1	7.1	.0	.0	.0	.0	.0	14.2	.0	.0	3.6	.0	.0	.0	82.1
SE	29.2	12.5	.0	.0	.0	.0	.0	41.7	.0	.0	.0	.0	.0	.0	58.3
S	11.0	16.4	5.5	.0	.0	.0	.0	32.9	5.5	.0	.0	.0	.0	.0	61.6
SW	1.7	26.4	1.7	.0	.0	.0	19.8	49.6	.0	.0	.0	.0	.0	.0	50.4
W	3.6	24.1	2.4	.0	.0	.0	12.0	42.2	2.4	1.2	.0	.0	.0	.0	55.4
NW	4.9	22.2	3.7	.0	.0	.0	2.5	33.3	.0	1.2	7.4	.0	.0	.0	59.3
VAR	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
CALM	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
TOT PCT	6.0	18.6	2.0	.0	.0	.0	6.0	32.7	1.0	.5	2.0	.0	.0	.0	64.3
TOT OBS:	199														

TABLE 2

PERCENT FREQUENCY OF WEATHER OCCURRENCE BY HOUR

HOUR (GMT)	PRECIPITATION TYPE							OTHER WEATHER PHENOMENA							NO SIG WEA
	RAIN	RAIN SHWR	DRZL	FRZG PCPN	SNOW	OTHER FRZN PCPN	HAIL	PCPN AT DB TIME	PCPN PAST HOUR	THDR LTNG	FGD WD PCPN	FGD WD PCPN PAST HR	SMOKE HAZE	SPRAY BLWG DUST	
00003	4.4	15.6	.0	.0	.0	.0	4.4	24.4	.0	.0	2.2	.0	.0	.0	73.3
06009	10.8	21.5	3.1	.0	.0	.0	9.2	44.6	.0	.0	1.5	.0	.0	.0	53.8
12015	8.6	17.1	.0	.0	.0	.0	5.7	31.4	2.9	2.9	2.9	.0	.0	.0	62.9
18021	3.3	16.7	3.3	.0	.0	.0	3.3	26.7	1.7	.0	1.7	.0	.0	.0	70.0
TOT PCT	6.8	18.0	2.0	.0	.0	.0	5.9	32.7	1.0	.5	2.0	.0	.0	.0	64.4
TOT OBS:	205														

TABLE 3

PERCENTAGE FREQUENCY OF WIND DIRECTION BY SPEED AND BY HOUR

WIND DIR	WIND SPEED (KNOTS)							48+	TOTAL OBS	PCT FREQ	MEAN SPD	HOUR (GMT)							
	0-3	4-10	11-21	22-33	34-47	00	03					06	09	12	15	18	21		
N	1.1	3.4	4.8	2.0	.0	.0	11.3	13.7	9.1	19.8	5.0	1.9	.0	12.5	15.2	13.5			
NE	.2	3.2	6.3	1.1	.0	.0	10.9	14.5	9.1	12.5	10.0	11.1	18.8	8.9	10.6	9.5			
E	.0	5.0	4.1	.0	.0	.0	9.0	11.1	9.1	7.3	11.3	7.4	6.3	10.7	10.6	7.7			
SE	.0	2.9	1.4	1.1	.0	.0	5.4	13.5	.0	5.2	6.3	13.0	.0	8.9	1.5	1.9			
S	.0	1.4	4.4	1.6	.9	.0	8.3	19.4	15.9	5.2	3.8	9.3	12.5	10.7	10.6	9.5			
SW	.0	1.4	7.1	4.5	.9	.0	13.9	20.4	20.5	7.3	22.5	16.7	31.3	10.7	10.6	9.5			
W	.9	1.8	9.0	6.3	2.5	.5	21.0	21.1	36.4	20.3	18.8	14.8	31.3	14.3	24.2	26.0			
NW	.0	3.2	8.1	7.2	1.1	.0	19.7	19.5	.0	22.4	22.5	22.2	.0	23.2	16.7	22.1			
VAR	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0			
CALM	.5						.5	.0	.0	.0	.0	3.7	.0	.0	.0	.0			
TOT OBS	6	49	100	53	12	1	221		17.6	11	48	40	27	8	28	33	26		
TOT PCT	2.7	22.2	45.2	24.0	5.4	.5		100.0		100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0		

TABLE 3A

WIND DIR	WIND SPEED (KNOTS)					TOTAL OBS	PCT FREQ	MEAN SPD	HOUR (GMT)				
	0-6	7-16	17-27	28-40	41+				00	06	12	18	21
N	2.0	5.2	3.2	.9	.0		11.3	13.7	17.8	3.7	9.7	14.4	
NE	.9	4.3	5.7	.0	.0		10.9	14.5	11.9	10.4	11.1	10.2	
E	.9	6.8	1.4	.0	.0		9.0	11.1	7.6	9.7	9.7	9.3	
SE	2.0	1.6	.7	1.1	.0		5.4	13.5	4.2	9.0	6.9	1.7	
S	.5	2.6	3.2	2.0	.0		8.3	19.4	7.2	6.0	11.1	10.2	
SW	.0	3.7	6.8	3.4	.0		13.9	20.4	9.7	20.1	15.3	10.2	
W	1.8	4.8	9.4	6.6	.5		21.0	21.1	23.3	17.2	18.1	25.0	
NW	.9	7.2	7.8	2.8	.9		19.7	19.5	18.2	22.4	18.1	19.1	
VAR	.0	.0	.0	.0	.0		.0	.0	.0	.0	.0	.0	
CALM	.5						.5	.0	.0	1.5	.0	.0	
TOT OBS	21	80	84	33	3	221		17.6	59	67	36	59	
TOT PCT	9.5	36.2	38.0	14.9	1.4		100.0		100.0	100.0	100.0	100.0	

AREA 0011 TASMANIA WEST  
43.55 144.3E

PERCENTAGE FREQUENCY OF WIND SPEED BY HOUR (GMT)

HOUR	CALM	1-3			4-10			WIND SPEED (KNOTS) 11-21 22-33 34-47			48+	MEAN	PCT FREQ	TOTAL OBS
		1	2	3	4	5	6	7	8	9				
00603	.0	3.4	20.3		44.1	25.4	6.8	.0	17.9	100.0		59		
00609	1.5	.0	23.9		46.3	25.4	3.0	.0	17.4	100.0		67		
12615	.0	.0	27.8		52.8	16.7	4.8	.0	16.0	100.0		36		
18621	.0	5.1	18.6		40.7	25.4	8.5	.0	17.1	100.0		67		
TOT	1	5	49		190	53	12	1	17.6			221		
PCT	.5	2.3	22.2		45.2	24.0	5.4	.5		100.0				

TABLE 6

PERCENTAGE FREQUENCY OF CEILING HEIGHTS (FT, NH  $\geq 4/8$ )  
AND OCCURRENCE OF NH  $< 5/8$  BY WIND DIRECTION

BY WIND DIRECTION						MEAN
WIND DIR	0-2	3-4	5-7	8 & OBSCH	TOTAL OBS	CLOUD COVER
N	.0	.0	.0	.0		.0
NE	.0	.0	.0	.0		.0
E	.0	.0	.0	.0		.0
SE	.0	.0	.0	.0		.0
S	.0	.0	4.2	5.6		6.7
SW	.0	16.7	20.8	5.6		5.4
W	.0	11.1	25.0	5.6		5.3
NW	.0	.0	5.6	.0		7.0
VAR	.0	.0	.0	.0		.0
CALW	.0	.0	.0	.0		.0
TOT OBS			10	3	18	5.6
TOT PCT		27.8	55.6	16.7	100.0	

000	150	300	600	1000	2000	3500	5000	6500	8000+	NH	C5/8	TOTAL
149	299	599	999	1999	3499	4999	6499	7999		ANY	HGT	OBS
.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
.0	.0	.0	.0	9.7	.0	.0	.0	.0	.0	.0	.0	.0
.0	.0	.0	.0	6.9	16.7	2.8	.0	.0	.0	.0	16.7	.0
.0	.0	.0	11.1	5.6	5.6	8.3	.0	.0	.0	.0	11.1	.0
.0	.0	.0	5.6	.0	.0	.0	.0	.0	.0	.0	.0	.0
.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
.0	.0	.0	3	4	4	2	.0	.0	.0	.0	.0	.0
.0	.0	.0	16.7	22.2	22.2	11.1	.0	.0	.0	.0	27.8	18

CUMULATIVE PCT FREQ OF SIMULTANEOUS OCCURRENCE  
OF CEILING HEIGHT (NM >4/8) AND VSBY (NM)

	VSBY (NM)								
CEILING (FEET)	= OR >10	= OR >5	= OR >2	= OR >1	= OR >1/2	= OR >1/4	= OR >50YD	= OR >0	= OR >0
= OR >6500	.0	.0	.0	.0	.0	.0	.0	.0	.0
= OR >5000	.0	.0	.0	.0	.0	.0	.0	.0	.0
= OR >4000	5.6	5.6	11.1	11.1	11.1	11.1	11.1	11.1	11.1
= OR >3000	27.8	27.8	33.3	33.3	33.3	33.3	33.3	33.3	33.3
= OR >2000	44.4	50.0	55.6	55.6	55.6	55.6	55.6	55.6	55.6
= OR >1000	55.6	66.7	72.2	72.2	72.2	72.2	72.2	72.2	72.2
= OR >800	55.6	66.7	72.2	72.2	72.2	72.2	72.2	72.2	72.2
= OR >600	55.6	66.7	72.2	72.2	72.2	72.2	72.2	72.2	72.2
= OR >400	55.6	66.7	72.2	72.2	72.2	72.2	72.2	72.2	72.2
= OR >200	55.6	66.7	72.2	72.2	72.2	72.2	72.2	72.2	72.2
= OR >150	55.6	66.7	72.2	72.2	72.2	72.2	72.2	72.2	72.2
= OR >100	55.6	66.7	72.2	72.2	72.2	72.2	72.2	72.2	72.2
TOTAL	10	10	13	13	13	13	13	13	13

TOTAL NUMBER OF OBS: 18

PCT FREQ NH 45/81 27.8

PERCENTAGE FREQ OF LOW CLOUDS (EIGHTHS)

0	1	2	3	4	5	6	7	8	DBSCD	TOTAL DBS
.0	.0	.0	23.8	9.5	23.8	9.5	19.0	14.3	.0	21

PERIOD: (PRIMARY) 1886-1968  
(OVER-ALL) 1876-1968

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AREA 0011 TASMANIA WEST  
43.55 144.3E

TABLE 8

PERCENT FREQ OF WIND DIRECTION VS OCCURRENCE OR NON-OCCURRENCE OF  
PRECIPITATION WITH VARYING VALUES OF VISIBILITY

VSBY (NM)		N	NE	E	SE	S	SW	W	NW	VAR	CALM	PCT	TOTAL OBS	
<1/2	PCP	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
	NO PCP	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
	TOT %	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
1/2<1	PCP	.0	.0	.0	.0	.0	.0	.0	.5	.0	.0	.5	.5	
	NO PCP	.0	.3	.3	.0	.0	.0	.0	1.5	.0	.0	2.0	2.0	
	TOT %	.0	.3	.3	.0	.0	.0	.0	2.0	.0	.0	2.5	2.5	
1<2	PCP	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
	NO PCP	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
	TOT %	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
2<5	PCP	.0	.0	.0	.0	.0	.3	.3	.0	.0	.0	.5	.5	
	NO PCP	.0	.0	.0	.0	.0	.0	.5	.0	.0	.0	.5	.5	
	TOT %	.0	.0	.0	.0	.0	.3	.8	.0	.0	.0	1.0	1.0	
5<10	PCP	2.0	.5	1.0	2.5	3.0	7.0	8.3	5.3	.0	.0	29.6	29.6	
	NO PCP	7.5	9.0	5.5	3.3	4.8	3.5	8.4	11.2	.0	.0	53.3	53.3	
	TOT %	9.5	9.5	6.5	5.8	7.8	10.6	16.7	16.5	.0	.0	82.9	82.9	
10+	PCP	.5	.0	.0	.0	.0	.3	.3	1.0	.0	.0	2.0	2.0	
	NO PCP	.3	1.3	.3	.3	1.4	4.1	3.1	.9	.0	.0	11.6	11.6	
	TOT %	.8	1.3	.3	.3	1.4	4.4	3.4	1.9	.0	.0	13.6	13.6	
TOT OBS														
TOT PCT													199	
</														



PERIOD: (PRIMARY) 1886-1968  
(OVER-ALL) 1876-1968

JULY

AREA 0011 TASMANIA WEST  
43.55 144.3E

TABLE 10

PERCENT FREQUENCY OF CEILING HEIGHTS (FEET, NH >4/8) AND  
OCCURRENCE OF NH <5/8 BY HOUR

HOUR (GMT)	000 149	150 299	300 599	600 999	1000 1999	2000 3499	3500 4999	5000 6499	6500 7999	8000+	TOTAL	NH <5/8 ANY HGT	TOTAL OBS
00003	.0	.0	.0	14.3	42.9	.0	.0	.0	.0	.0	57.1	42.9	7
06009	.0	.0	.0	12.5	.0	37.5	25.0	.0	.0	.0	75.0	25.0	8
12015	.0	.0	.0	.0	50.0	.0	.0	.0	.0	.0	50.0	50.0	2
18021	.0	.0	.0	33.3	.0	33.3	.0	.0	.0	.0	66.7	33.3	3
TOT	0	0	0	3	4	4	2	0	0	0	13	7	20
PCT	.0	.0	.0	15.0	20.0	20.0	10.0	.0	.0	.0	65.0	35.0	100.0

TABLE 11

PERCENT FREQUENCY VSBY (NM) BY HOUR

HOUR (GMT)	<1/2	1/2<1	1<2	2<5	5<10	10+	TOTAL OBS
00003	.0	2.2	.0	.0	73.3	24.4	45
06009	.0	3.1	.0	3.1	76.9	16.9	65
12015	.0	2.9	.0	.0	91.4	5.7	35
18021	.0	1.7	.0	.0	91.7	6.7	60
TOT	0	5	0	2	170	28	205
PCT	.0	2.4	.0	1.0	82.9	13.7	100.0

TABLE 12

CUMULATIVE PCT FREQ OF RANGES OF VSBY (NM) AND/OR  
CEILING HGT (FEET, NH >4/8), BY HOUR

HOUR (GMT)	<150 <500	<600 <1	<1000 <5	1000+ AND 5+	NH <5/8 AND 5+	TOTAL OBS
00003	.0	.0	16.7	50.0	33.3	6
06009	.0	.0	28.6	57.1	14.3	7
12015	.0	.0	.0	50.0	50.0	2
18021	.0	.0	33.3	33.3	33.3	3
TOT	0	0	4	9	5	18
PCT	.0	.0	22.2	50.0	27.8	100.0

TABLE 13

PERCENT FREQUENCY OF RELATIVE HUMIDITY BY TEMP

TEMP F	0-29	30-39	40-49	50-59	60-69	70-79	80-89	90-100	TOTAL OBS	PCT FREQ
50/54	.0	.0	.0	.0	.0	12.0	8.0	28.0	12	48.0
45/49	.0	.0	.0	.0	12.0	20.0	12.0	4.0	12	48.0
40/44	.0	.0	.0	.0	.0	.0	4.0	.0	1	4.0
TOTAL	0	0	0	0	3	8	6	8	25	100.0
PCT	.0	.0	.0	.0	12.0	32.0	24.0	32.0		

TABLE 14

PERCENT FREQUENCY OF WIND DIRECTION BY TEMP

N	NE	E	SE	S	SW	W	NW	VAR	CALM
.0	4.0	2.0	2.0	4.0	4.0	26.0	6.0	.0	.0
.0	.0	.0	.0	3.0	31.0	14.0	.0	.0	.0
.0	.0	.0	.0	4.0	.0	.0	.0	.0	.0
.0	4.0	2.0	2.0	11.0	35.0	40.0	6.0	.0	.0

TABLE 15

MEANS, EXTREMES AND PERCENTILES OF TEMP (DEG F) BY HOUR

HOUR (GMT)	MAX	99%	95%	50%	5%	1%	MIN	MEAN	TOTAL OBS
00003	55	54	54	51	45	41	41	49.6	60
06009	55	54	54	48	45	43	43	48.9	68
12015	55	54	53	49	44	43	43	48.5	37
18021	55	54	53	49	45	43	43	49.0	62
TOT	55	54	53	49	45	43	41	49.0	227

TABLE 16

PERCENT FREQUENCY OF RELATIVE HUMIDITY BY HOUR

HOUR (GMT)	0-29	30-39	40-49	50-59	60-69	70-79	80-89	90-100	MEAN	TOTAL OBS
00003	.0	.0	.0	.0	.0	37.5	25.0	37.5	85	8
06009	.0	.0	22.2	33.3	11.1	33.3	.0	.0	80	9
12015	.0	.0	33.3	33.3	33.3	.0	.0	.0	78	3
18021	.0	.0	.0	20.0	40.0	40.0	.0	.0	86	5
TOT	0	0	3	8	6	8	8	52	25	

JULY

PERIOD: (PRIMARY) 1886-1968  
(OVER-ALL) 1876-1968AREA 0011 TASMANIA WEST  
43.55 144.3E

TABLE 17

PCT FREQ OF AIR TEMPERATURE (DEG F) AND THE OCCURRENCE OF FDG (WITHOUT PRECIPITATION)  
VS AIR-SEA TEMPERATURE DIFFERENCE (DEG F)

AIR-SEA TMP DIF	41 44	45 48	49 52	53 56	TOT	N FDG	WD FDG
6	.0	.0	.0	.5	1	.0	.5
5	.0	.0	.0	.5	1	.0	.5
4	.0	.0	.5	.5	2	.5	.5
3	.0	.5	1.0	.5	4	.0	2.0
2	.0	.0	1.5	.0	3	.0	1.5
1	.0	1.5	1.0	3.0	11	.0	5.5
0	.0	.0	10.9	5.5	33	.5	15.9
-1	.0	2.5	10.4	2.0	30	1.0	13.9
-2	.0	4.5	6.5	1.0	24	.0	11.9
-3	.5	7.0	6.5	.0	28	.0	13.9
-4	.5	9.5	1.5	.5	24	.0	11.9
-5	1.0	7.0	1.0	.0	18	.0	9.0
-6	.5	7.0	.5	.0	16	.0	8.0
-7/-8	1.5	1.5	.0	.0	6	.0	3.0
TOTAL	8	82	83	28	201	4	197
PCT	4.0	40.8	41.3	13.9	100.0	2.0	98.0

PERIOD: (OVER-ALL) 1963-1968

TABLE 18

PCT FREQ OF WIND SPEED (KTS) AND DIRECTION VERSUS SEA HEIGHTS (FT)

HGT	1-3	4-10	11-21	22-33	34-47	48+	PCT	1-3	4-10	11-21	22-33	34-47	48+	PCT
<1	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
1-2	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
3-4	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
5-6	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
7	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
8-9	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
10-11	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
12	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
13-16	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
17-19	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
20-22	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
23-25	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
26-32	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
33-40	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
41-48	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
49-60	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
61-70	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
71-86	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
87+	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
TOT PCT	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0

HGT	1-3	4-10	11-21	22-33	34-47	48+	PCT	1-3	4-10	11-21	22-33	34-47	48+	PCT
<1	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
1-2	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
3-4	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
5-6	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
7	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
8-9	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
10-11	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
12	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
13-16	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
17-19	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
20-22	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
23-25	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
26-32	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
33-40	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
41-48	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
49-60	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
61-70	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
71-86	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
87+	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
TOT PCT	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0

PERIOD: (OVER-ALL) 1963-1968

JULY

AREA 0011 TASMANIA WEST  
43.5S 144.3E

TABLE 18 (CONT)

PCT FREQ OF WIND SPEED (KTS) AND DIRECTION VERSUS SEA HEIGHTS (FT)

HGT	S							PCT	SW							PCT
	1-3	4-10	11-21	22-33	34-47	48+			1-3	4-10	11-21	22-33	34-47	48+		
<1	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
1-2	.0	.0	.0	.0	.0	.0	.0	.0	.0	10.0	.0	.0	.0	.0	.0	10.0
3-4	.0	.0	10.0	.0	.0	.0	10.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
5-6	.0	.0	7.5	.0	.0	.0	7.5	.0	.0	.0	2.5	10.0	.0	.0	.0	12.5
7	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
8-9	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
10-11	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
12	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
13-16	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	10.0	.0	.0	.0	10.0
17-19	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
20-22	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
23-25	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
26-32	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
33-40	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
41-48	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
49-60	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
61-70	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
71-86	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
87+	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
TOT PCT	.0	.0	17.5	.0	.0	.0	17.5	.0	.0	10.0	2.5	20.0	.0	.0	.0	32.5

HGT	W							PCT	NW							TOTAL PCT
	1-3	4-10	11-21	22-33	34-47	48+			1-3	4-10	11-21	22-33	34-47	48+		
<1	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
1-2	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
3-4	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
5-6	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
7	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
8-9	.0	.0	.0	.0	20.0	.0	20.0	.0	.0	.0	.0	10.0	.0	.0	.0	10.0
10-11	.0	.0	.0	.0	10.0	.0	10.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
12	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
13-16	.0	.0	.0	10.0	.0	.0	10.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
17-19	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
20-22	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
23-25	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
26-32	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
33-40	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
41-48	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
49-60	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
61-70	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
71-86	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
87+	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
TOT PCT	.0	.0	.0	10.0	30.0	.0	40.0	.0	.0	.0	.0	10.0	.0	.0	10.0	100.0

WIND SPEED (KTS) VS SEA HEIGHT (FT)

HGT	0-3	4-10	11-21	22-33	34-47	48+	PCT	TOT
<1	.0	.0	.0	.0	.0	.0	.0	085
1-2	.0	10.0	.0	.0	.0	.0	10.0	
3-4	.0	.0	10.0	.0	.0	.0	10.0	
5-6	.0	.0	10.0	10.0	.0	.0	20.0	
7	.0	.0	.0	.0	.0	.0	.0	
8-9	.0	.0	.0	10.0	20.0	.0	30.0	
10-11	.0	.0	.0	.0	10.0	.0	10.0	
12	.0	.0	.0	.0	.0	.0	.0	
13-16	.0	.0	.0	20.0	.0	.0	20.0	
17-19	.0	.0	.0	.0	.0	.0	.0	
20-22	.0	.0	.0	.0	.0	.0	.0	
23-25	.0	.0	.0	.0	.0	.0	.0	
26-32	.0	.0	.0	.0	.0	.0	.0	
33-40	.0	.0	.0	.0	.0	.0	.0	
41-48	.0	.0	.0	.0	.0	.0	.0	
49-60	.0	.0	.0	.0	.0	.0	.0	
61-70	.0	.0	.0	.0	.0	.0	.0	
71-86	.0	.0	.0	.0	.0	.0	.0	
87+	.0	.0	.0	.0	.0	.0	.0	
TOT PCT	.0	10.0	20.0	40.0	30.0	.0	100.0	10

PERIOD: (OVER-ALL) 1950-1968

TABLE 19

PERCENT FREQUENCY OF WAVE HEIGHT (FT) VS WAVE PERIOD (SECONDS)

PERIOD (SEC)	<1	1-2	3-4	5-6	7	8-9	10-11	12	13-16	17-19	20-22	23-25	26-32	33-40	41-48	49-60	61-70	71-86	87+	TOTAL	MEAN HGT
<6	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	5
6-7	.0	.0	.0	8.3	.0	8.3	.0	.0	.0	.0	.0	8.3	.0	.0	.0	.0	.0	.0	.0	.0	12
8-9	.0	.0	.0	.0	.0	8.3	.0	.0	.0	.0	.0	8.3	.0	.0	.0	.0	.0	.0	.0	.0	16
10-11	.0	.0	.0	.0	.0	8.3	.0	8.3	16.7	8.3	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	13
12-13	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	5
13	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	5
INDET	.0	.0	.0	.0	.0	8.3	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	9
TOTAL	.0	.0	.0	1	0	4	1	2	1	0	2	0	0	0	0	0	0	0	0	0	12
PCT	.0	.0	.0	8.3	.0	33.3	8.3	8.3	16.7	8.3	.0	16.7	.0	.0	.0	.0	.0	.0	.0	.0	100.0

PERIOD: (PRIMARY) 1879-1955  
(OVER-ALL) 1854-1955

AUGUST

AREA 0011 TASMANIA WEST  
43.55 144.0E

TABLE 1

PERCENT FREQUENCY OF WEATHER OCCURRENCE BY WIND DIRECTION

WIND DIR	PRECIPITATION TYPE							OTHER WEATHER PHENOMENA							NO SIG WEA
	RAIN	RAIN SHWR	DRZL	FRZG PCPN	SNOW	OTHER FRZN PCPN	HAIL	PCPN AT DB TIME	PCPN PAST HOUR	THDR LTNG	FOG WD PCPN	FOG WD PCPN PAST HR	SMOKE HAZE	SPRAY BLWG DUST	
N	3.8	5.7	.0	.0	.0	.0	.0	9.5	.0	.0	1.9	.0	.0	.0	88.6
NE	8.6	14.3	.0	.0	.0	.0	.0	22.9	.0	.0	5.7	.0	.0	.0	71.4
E	.0	12.5	.0	.0	.0	.0	.0	12.5	.0	.0	.0	.0	.0	.0	87.5
SE	40.0	20.0	.0	.0	.0	.0	.0	60.0	.0	.0	.0	.0	.0	.0	40.0
S	.0	25.0	.0	.0	.0	.0	.0	25.0	.0	.0	12.5	.0	.0	.0	62.5
SW	4.8	21.7	1.2	.0	.0	.0	4.8	32.5	4.8	.0	.0	.0	.0	.0	62.7
W	4.4	17.5	5.1	.0	.0	.0	1.5	28.5	.0	.0	2.9	.0	.0	.0	68.6
NW	6.4	9.6	4.3	.0	.0	.0	1.1	21.4	.0	6.4	1.1	.0	2.1	.0	71.1
VAR	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
CALM	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
TOT PCT	5.6	13.8	2.5	.0	.0	.0	1.3	23.1	.6	1.9	2.5	.0	.6	.0	71.9
TOT OBS:	160														

TABLE 2

PERCENT FREQUENCY OF WEATHER OCCURRENCE BY HOUR

HOUR (GMT)	PRECIPITATION TYPE							OTHER WEATHER PHENOMENA							NO SIG WEA
	RAIN	RAIN SHWR	DRZL	FRZG PCPN	SNOW	OTHER FRZN PCPN	HAIL	PCPN AT DB TIME	PCPN PAST HOUR	THDR LTNG	FOG WD PCPN	FOG WD PCPN PAST HR	SMOKE HAZE	SPRAY BLWG DUST	
0000	.0	12.9	.0	.0	.0	.0	.0	12.9	.0	.0	.0	.0	.0	.0	87.1
0600	.0	20.4	2.0	.0	.0	.0	4.1	26.5	2.0	2.0	6.1	.0	.0	.0	63.3
1200	14.3	11.4	2.9	.0	.0	.0	.0	28.6	.0	5.7	2.9	.0	.0	.0	65.7
1800	8.0	10.0	4.0	.0	.0	.0	.0	22.0	.0	.0	.0	.0	2.0	.0	76.0
TOT PCT	5.5	13.9	2.4	.0	.0	.0	1.2	23.0	.6	1.8	2.4	.0	.6	.0	72.1
TOT OBS:	165														

TABLE 3

PERCENTAGE FREQUENCY OF WIND DIRECTION BY SPEED AND BY HOUR

WIND DIR	WIND SPEED (KNOTS)							TOTAL DBS	PCT FREQ	MEAN SPD	HOUR (GMT)							
	0-3	4-10	11-21	22-33	34-47	48+					00	03	06	09	12	15	18	21
N	.0	3.9	7.3	9.1	.7	.5		15.5	18.8		.0	17.3	10.7	7.4	5.6	19.2	20.0	22.9
NE	.5	2.1	4.3	2.1	.9	.0		10.0	17.8		20.0	8.1	14.3	11.1	38.9	9.6	5.0	2.1
E	.9	.0	1.2	.2	.2	.0		2.6	13.0		.0	4.0	5.4	5.6	.0	.0	.0	.0
SE	.5	.5	.5	.2	.5	.0		2.1	16.2		.0	3.2	1.8	3.7	.0	.0	.0	4.2
S	.0	2.1	1.2	2.8	.7	.5		7.3	22.6		.0	10.9	8.9	11.1	5.6	3.8	3.3	3.1
SW	.5	.8	4.0	4.0	1.4	.9		11.7	23.8		40.0	9.3	14.3	16.7	27.8	7.7	6.7	8.3
W	.0	1.8	7.3	5.5	4.0	1.9		20.5	25.9		20.0	17.7	25.0	16.7	11.1	30.8	23.3	15.6
NW	.5	3.0	13.0	8.1	3.3	2.4		30.2	23.2		20.0	29.4	19.6	27.8	11.1	28.8	41.7	43.8
VAR	.0	.0	.0	.0	.0	.0		.0	.0		.0	.0	.0	.0	.0	.0	.0	.0
CALM	.0	.0	.0	.0	.0	.0		.0	.0		.0	.0	.0	.0	.0	.0	.0	.0
TOT DBS	6	30	82	55	25	13	211		22.1		5	62	28	27	9	26	30	24
TOT PCT	2.8	14.2	38.9	26.1	11.8	6.2		100.0			100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0

TABLE 3A

WIND DIR	WIND SPEED (KNOTS)				41+	TOTAL DBS	PCT FREQ	MEAN SPD	HOUR (GMT)			
	0-6	7-16	17-27	28-40					00	06	12	18
N	1.5	4.3	6.4	2.6	.7		15.5	18.8	16.0	9.1	15.7	21.3
NE	1.7	2.6	3.6	2.1	.0		10.0	17.8	9.0	12.7	17.1	3.7
E	.9	.7	.7	.2	.0		2.6	13.0	3.7	5.5	.0	.0
SE	.5	.9	.2	.5	.0		2.1	16.2	3.0	2.7	.0	1.9
S	1.3	1.1	1.9	2.6	.5		7.3	22.6	10.1	10.0	4.3	3.2
SW	.6	2.8	4.5	2.8	.9		11.7	23.8	11.6	15.5	12.9	7.4
W	.7	4.9	6.4	5.7	2.8		20.5	25.9	17.9	20.9	25.7	19.9
NW	1.8	8.8	9.5	6.6	3.6		30.2	23.2	28.7	23.6	24.3	42.6
VAR	.0	.0	.0	.0	.0		.0	.0	.0	.0	.0	.0
CALM	.0	.0	.0	.0	.0		.0	.0	.0	.0	.0	.0
TOT DBS	19	55	70	49	18	211		22.1	67	55	35	54
TOT PCT	9.0	26.1	33.2	23.2	8.5		100.0		100.0	100.0	100.0	100.0

AREA 0011 TASMANIA WEST  
43.55 144.0E

PERCENTAGE FREQUENCY OF WIND SPEED BY HOUR (GMT)

HOUR	CALM	WIND SPEED (KNOTS)					48+	MEAN	PCT FREQ	TOTAL OBS
		1-3	4-10	11-21	22-33	34-47				
00003	.0	3.0	11.9	34.3	31.3	11.9	7.5	24.0	100.0	67
06009	.0	5.5	12.7	27.3	27.3	21.8	5.5	23.4	100.0	35
12015	.0	2.9	17.1	40.0	22.9	11.9	3.1	21.3	100.0	35
18021	.0	0	16.7	35.6	22.7	1.9	6.6	19.0	100.0	55
00027	.0	6	14.2	32	55	25	13	22.1		211
PCT	.0	2.8	30	59.9	26.1	11.8	6.2		100.0	

TABLE 6

PERCENTAGE FREQUENCY OF CEILING HEIGHTS (FT, NH  $\geq 4/8$ )  
AND OCCURRENCE OF NH  $\leq 5/8$  BY WIND DIRECTION

WIND DIR	0-2	3-4	5-7	8 & OBS	TOTAL OBS	MEAN CLOUD COVER	000 149	150 299	300 599	600 999	1000 1999	2000 3499	3500 4999	5000 6499	6500 7999	8000+	4H ANY	<5/8 HGT	TOTAL OBS
N	.0	.0	.0	10.0	10.0	8.0	.0	.0	.0	.0	10.0	.0	.0	.0	.0	.0	.0	.0	.0
NE	.0	.0	.0	10.0	10.0	8.0	.0	.0	.0	.0	10.0	.0	.0	.0	.0	.0	.0	.0	.0
E	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
SE	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
S	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
SW	.0	.0	50.0	.0	50.0	5.6	.0	.0	.0	.0	20.0	40.0	.0	.0	.0	.0	.0	.0	.0
W	.0	.0	20.0	.0	20.0	5.0	.0	.0	.0	.0	.0	20.0	.0	.0	.0	.0	.0	.0	.0
NW	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
VAR	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
CALM	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
TOT OBS	.0	.0	.0	1	5	6.6	.0	.0	.0	.0	2	3	.0	.0	.0	.0	.0	.0	.0
TOT PCT	.0	.0	80.0	20.0	100.0		.0	.0	.0	.0	40.0	60.0	.0	.0	.0	.0	.0	.0	100.0

CUMULATIVE PCT FREQ OF SIMULTANEOUS OCCURRENCE  
OF CEILING HEIGHT (NH >4/8) AND VSBY (NM)

CEILING (FEET)	VSBY (NM)							
	OR >10	OR >5	OR >2	OR >1	OR >1/2	OR >1/4	OR >50 YD	OR >0
OR >6500	.0	.0	.0	.0	.0	.0	.0	.0
OR >6000	.0	.0	.0	.0	.0	.0	.0	.0
OR >3500	.0	.0	.0	.0	.0	.0	.0	.0
OR >2000	60.0	60.0	60.0	60.0	60.0	60.0	60.0	60.0
OR >1000	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0
OR >600	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0
OR >300	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0
OR >150	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0
OR	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0
TOTAL	5	5	5	5	5	5	5	5

PCT FREQ NH 45/81 .0

PERCENTAGE FREQ OF LOW CLOUDS (EIGHTHS)

0	1	2	3	4	5	6	7	8	OBS CD	TOTAL OBS
.0	.0	.0	.0	.0	50.0	16.7	.0	33.3	.0	6



PERIOD: (PRIMARY) 1879-1955  
(OVER-ALL) 1854-1955

AUGUST

AREA 0011 TASMANIA WEST  
43.55 144.0E

TABLE 8

PERCENT FREQ OF WIND DIRECTION VS OCCURRENCE OR NON-OCCURRENCE OF  
PRECIPITATION WITH VARYING VALUES OF VISIBILITY

VSBY (NM)		N	NE	E	SE	S	SW	W	NW	VAR	CALM	PCT	TOTAL OBS
<1/2	PCP	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
	NO PCP	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
	TOT %	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
1/2<1	PCP	.0	.0	.0	.0	.0	.0	1.3	1.3	.0	.0	2.5	.0
	NO PCP	.3	.6	.0	.0	.6	.0	.6	.3	.0	.0	2.5	.0
	TOT %	.3	.6	.0	.0	.6	.0	1.9	1.6	.0	.0	5.0	.0
1<2	PCP	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
	NO PCP	.0	.0	.0	.0	.0	.0	.0	.6	.0	.0	.6	.0
	TOT %	.0	.0	.0	.0	.0	.0	.0	.6	.0	.0	.6	.0
2<5	PCP	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
	NO PCP	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
	TOT %	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
5<10	PCP	1.3	2.2	.3	.3	1.3	3.6	4.5	4.7	.0	.0	18.1	.0
	NO PCP	13.4	6.9	2.2	.6	2.2	7.2	14.1	20.9	.0	.0	67.5	.0
	TOT %	14.7	9.1	2.5	.9	3.4	10.8	18.6	25.6	.0	.0	85.6	.0
10+	PCP	.3	.3	.0	.6	.0	.6	.3	.3	.0	.0	2.5	.0
	NO PCP	1.1	.9	.0	.0	.9	1.6	.6	1.1	.0	.0	6.3	.0
	TOT %	1.4	1.3	.0	.6	.9	2.2	.9	1.4	.0	.0	8.8	.0
TOT OBS													
TOT PCT													
		16.4	10.9	2.5	1.6	5.0	13.0	21.4	29.2	.0	.0	100.0	160

TABLE 9

PERCENT FREQ OF WIND DIRECTION VS WIND SPEED  
WITH VARYING VALUES OF VISIBILITY

VSBY (NM)	SPD KTS	N	NE	E	SE	S	SW	W	NW	VAR	CALM	PCT	TOTAL OBS
<1/2	0-3	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
	4-10	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
	11-21	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
	22+	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
	TOT %	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
1/2<1	0-3	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
	4-10	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
	11-21	.0	.0	.0	.0	.0	.0	.6	.0	.0	.0	.6	.0
	22+	.3	.6	.0	.0	.6	.0	1.3	1.6	.0	.0	4.4	.0
	TOT %	.3	.6	.0	.0	.6	.0	1.9	1.6	.0	.0	5.0	.0
1<2	0-3	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
	4-10	.0	.0	.0	.0	.0	.0	.0	.6	.0	.0	.6	.0
	11-21	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
	22+	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
	TOT %	.0	.0	.0	.0	.0	.0	.0	.6	.0	.0	.6	.0
2<5	0-3	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
	4-10	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
	11-21	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
	22+	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
	TOT %	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
5<10	0-3	.0	.6	1.3	.0	.0	.6	.0	.6	.0	.0	3.1	.0
	4-10	4.1	2.2	.0	.0	1.3	.8	1.7	1.9	.0	.0	11.9	.0
	11-21	7.5	2.8	.9	.6	.9	5.3	6.9	13.8	.0	.0	38.8	.0
	22+	3.1	3.4	.3	.3	1.3	4.1	10.0	9.4	.0	.0	31.9	.0
	TOT %	14.7	9.1	2.5	.9	3.4	10.8	18.6	25.6	.0	.0	85.6	.0
10+	0-3	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
	4-10	.5	.6	.0	.6	.9	.3	.0	.2	.0	.0	3.1	.0
	11-21	.6	.6	.0	.0	.0	.0	.3	.9	.0	.0	2.5	.0
	22+	.3	.0	.0	.0	.0	1.9	.6	.3	.0	.0	3.1	.0
	TOT %	1.4	1.3	.0	.6	.9	2.2	.9	1.4	.0	.0	8.8	.0
TOT OBS													
TOT PCT													
		16.4	10.9	2.5	1.6	5.0	13.0	21.4	29.2	.0	.0	100.0	160

AUGUST

PERIOD: (PRIMARY) 1879-1955  
(OVER-ALL) 1854-1955AREA 0011 TASMANIA WEST  
43.35 144.0E

TABLE 10

PERCENT FREQUENCY OF CEILING HEIGHTS (FEET, NH >4/8) AND  
OCCURRENCE OF NH <3/8 BY HOUR

HOUR (GMT)	000 149	150 299	300 599	600 999	1000 1999	2000 3499	3500 4999	5000 6499	6500 7999	8000+	TOTAL	NH <3/8 ANY HGT	TOTAL OBS
00003	.0	.0	.0	.0	100.0	.0	.0	.0	.0	.0	100.0	.0	1
06009	.0	.0	.0	.0	33.3	66.7	.0	.0	.0	.0	100.0	.0	3
12015	.0	.0	.0	.0	.0	100.0	.0	.0	.0	.0	100.0	.0	1
18021	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	0
TOT	0	0	0	0	2	3	0	0	0	0	5	0	5
PCT	.0	.0	.0	.0	40.0	60.0	.0	.0	.0	.0	100.0	.0	100.0

TABLE 11

PERCENT FREQUENCY VSBY (NM) BY HOUR

HOUR (GMT)	<1/2	1/2<1	1<2	2<5	5<10	10+	TOTAL OBS
00003	.0	.0	.0	.0	87.1	12.9	31
06009	.0	10.2	.0	.0	79.6	10.2	49
12015	.0	5.7	.0	.0	88.6	5.7	35
18021	.0	2.0	2.0	.0	90.0	6.0	50
TOT	0	8	1	0	142	14	165
PCT	.0	4.8	.6	.0	86.1	8.5	100.0

TABLE 12

CUMULATIVE PCT FREQ OF RANGES OF VSBY (NM) AND/OR  
CEILING HGT (FEET, NH >4/8), BY HOUR

HOUR (GMT)	<150 <500	<600 1	<1000 5	1000+ AND 5+	NH <3/8 AND 5+	TOTAL OBS
00003	.0	.0	.0	100.0	.0	1
06009	.0	.0	.0	100.0	.0	3
12015	.0	.0	.0	100.0	.0	1
18021	.0	.0	.0	.0	.0	0
TOT	0	0	0	5	0	5
PCT	.0	.0	.0	100.0	.0	100.0

TABLE 13

PERCENT FREQUENCY OF RELATIVE HUMIDITY BY TEMP

TEMP F	0-29	30-39	40-49	50-59	60-69	70-79	80-89	90-100	TOTAL OBS	PCT FREQ
50/54	.0	.0	.0	.0	.0	28.6	14.3	42.9	6	85.7
49/49	.0	.0	.0	.0	.0	.0	.0	14.3	1	14.3
TOTAL	0	0	0	0	0	2	1	4	7	100.0
PCT	.0	.0	.0	.0	.0	28.6	14.3	57.1		

TABLE 14

PERCENT FREQUENCY OF WIND DIRECTION BY TEMP

	N	NE	E	SE	S	SW	W	NW	VAR	CALM
17.9	7.1	.0	.0	21.4	7.1	14.3	17.9	.0	.0	.0
.0	.0	.0	.0	.0	3.6	10.7	.0	.0	.0	.0
17.9	7.1	.0	.0	21.4	10.7	25.0	17.9	.0	.0	.0

TABLE 15

MEANS, EXTREMES AND PERCENTILES OF TEMP (DEG F) BY HOUR

HOUR (GMT)	MAX	99%	95%	50%	5%	1%	MIN	MEAN	TOTAL OBS
00003	54	53	53	51	46	45	45	50.3	59
06009	54	53	53	50	45	43	43	49.9	57
12015	53	52	52	50	44	43	43	49.2	37
18021	54	53	53	50	44	43	43	49.5	58
TOT	54	53	53	50	45	43	43	49.8	211

TABLE 16

PERCENT FREQUENCY OF RELATIVE HUMIDITY BY HOUR

HOUR (GMT)	0-29	30-39	60-69	70-79	80-89	90-100	MEAN	TOTAL OBS
00003	.0	.0	.0	33.3	.0	66.7	87	3
06009	.0	.0	.0	50.0	50.0	.0	77	2
12015	.0	.0	.0	.0	.0	100.0	94	2
18021	.0	.0	.0	.0	.0	.0	86	7
TOT	0	0	0	2	1	4		

AUGUST

PERIOD: (PRIMARY) 1879-1955  
(OVER-ALL) 1854-1955

AREA 0011 TASMANIA WEST  
43.55 144.0E

TABLE 17

PCT FREQ OF AIR TEMPERATURE (DEG F) AND THE OCCURRENCE OF FOG (WITHOUT PRECIPITATION)  
VS AIR-SEA TEMPERATURE DIFFERENCE (DEG F)

AIR-SEA TMP DIF	41 44	45 48	49 52	53 56	TOT	W FOG	WD FOG
4	.0	.0	.0	.7	1	.0	.7
3	.0	.0	2.7	.7	5	.0	3.4
2	.0	.0	4.8	4.1	13	.7	8.2
1	.0	.0	10.2	1.6	17	.0	11.6
0	.0	1.4	16.3	.7	27	.0	18.4
-1	.0	1.4	12.6	2.0	28	.0	19.0
-2	.0	2.7	12.9	.0	23	.0	15.6
-3	.0	3.4	6.1	.0	14	.0	9.5
-4	.7	4.1	.7	.0	8	.0	5.4
-5	1.4	2.0	1.4	.0	7	.7	4.1
-6	.7	.0	.0	.0	1	.0	.7
-7/-8	1.4	.0	.0	.0	2	.0	1.4
-9/-10	.7	.0	.0	.0	1	.0	.7
TOTAL	7		104		147	2	145
PCT	4.8	15.0	70.7	9.5	100.0	1.4	98.6

PERIOD: (OVER-ALL)

TABLE 18

PCT FREQ OF WIND SPEED (KTS) AND DIRECTION VERSUS SEA HEIGHTS (FT)

	N								NE							
HGT	1-3	4-10	11-21	22-33	34-47	48+	PCT		1-3	4-10	11-21	22-33	34-47	48+	PCT	
<1																
1-2																
3-4																
5-6																
7																
8-9																
10-11																
12																
13-16																
17-19																
20-22																
23-25																
26-32																
33-40																
41-48																
49-60																
61-70																
71-86																
87+																

INSUFFICIENT DATA

INSUFFICIENT DATA

TOT PCT

	E								SE							
HGT	1-3	4-10	11-21	22-33	34-47	48+	PCT		1-3	4-10	11-21	22-33	34-47	48+	PCT	
<1																
1-2																
3-4																
5-6																
7																
8-9																
10-11																
12																
13-16																
17-19																
20-22																
23-25																
26-32																
33-40																
41-48																
49-60																
61-70																
71-86																
87+																

INSUFFICIENT DATA

INSUFFICIENT DATA

TOT PCT

PERIOD: (OVER-ALL)

AUGUST

AREA 0011 TASMANIA WEST  
43.55 144.0E

TABLE 18 (CONT)

PCT FREQ OF WIND SPEED (KTS) AND DIRECTION VERSUS SEA HEIGHTS (FT)

HGT	1-3	4-10	11-21	22-33	34-47	48+	PCT	1-3	4-10	11-21	22-33	34-47	48+	PCT
<1														
1-2														
3-4														
5-6														
7														
8-9														
10-11														
12														
13-16														
17-19														
20-22														
23-25														
26-32														
33-40														
41-48														
49-60														
61-70														
71-86														
87+														

TOT PCT

INSUFFICIENT DATA

HGT	1-3	4-10	11-21	22-33	34-47	48+	PCT	1-3	4-10	11-21	22-33	34-47	48+	PCT	TOTAL PCT
<1															
1-2															
3-4															
5-6															
7															
8-9															
10-11															
12															
13-16															
17-19															
20-22															
23-25															
26-32															
33-40															
41-48															
49-60															
61-70															
71-86															
87+															

TOT PCT

INSUFFICIENT DATA

WIND SPEED (KTS) VS SEA HEIGHT (FT)

HGT	0-3	4-10	11-21	22-33	34-47	48+	PCT	TOT OBS
<1								
1-2								
3-4								
5-6								
7								
8-9								
10-11								
12								
13-16								
17-19								
20-22								
23-25								
26-32								
33-40								
41-48								
49-60								
61-70								
71-86								
87+								

TOT PCT

INSUFFICIENT DATA

PERIOD: (OVER-ALL) 1954-1955

TABLE 19

PERCENT FREQUENCY OF WAVE HEIGHT (FT) VS WAVE PERIOD (SECONDS)

PERIOD (SEC)	<1	1-2	3-4	5-6	7	8-9	10-11	12	13-16	17-19	20-22	23-25	26-32	33-40	41-48	49-60	61-70	71-86	87+	TOTAL	MEAN HGT
<6	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	0
6-7	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	0
8-9	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	0
10-11	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	0
12-13	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	0
13	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	0
INDEX	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	0
TOTAL	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	0
PCT	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	100.0

## SEPTEMBER

PERIOD: (PRIMARY) 1877-1967  
(OVER-ALL) 1859-1967AREA 0011 TASMANIA WEST  
43.45 144.0E

TABLE 1

## PERCENT FREQUENCY OF WEATHER OCCURRENCE BY WIND DIRECTION

PRECIPITATION TYPE										OTHER WEATHER PHENOMENA					
WIND DIR	RAIN	RAIN SHWR	DRZL	FRZG PCPN	SNOW	OTHER FRZN PCPN	HAIL	PCPN AT DB TIME	PCPN PAST HOUR	THDR LTNG	FOG WD PCPN	FOG WD PCPN PAST HR	SMOKE HAZE	SPRAY BLWG DUST	NO SIG WEA
N	4.2	16.9	.0	.0	.0	.0	.0	21.1	.0	.0	2.8	.0	1.4	.0	74.6
NE	15.7	.0	.0	.0	.0	.0	.0	16.7	.0	.0	22.2	.0	5.6	.0	55.6
E	33.3	.0	.0	.0	.0	.0	.0	33.3	.0	.0	.0	.0	.0	.0	66.7
SE	.0	12.5	.0	.0	.0	.0	.0	12.5	.0	.0	.0	.0	.0	.0	87.5
S	5.7	24.3	.0	.0	.0	.0	11.4	41.4	.0	.0	.0	.0	.0	.0	58.6
SW	.0	17.4	4.3	.0	.0	.0	13.0	34.8	.0	.0	13.0	.0	.0	.0	52.2
W	.0	26.3	3.2	.0	.0	.0	10.8	40.3	.0	.0	9.7	.0	.0	.0	50.0
NW	7.4	18.4	7.4	.0	.0	.0	.0	33.1	5.9	.0	1.5	.0	.0	.0	59.6
VAR	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
CALM	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
TOT PCT	4.1	19.5	3.0	.0	.0	.0	5.9	32.5	1.2	.0	6.5	.0	.6	.0	59.2
TOT OBS:	169														

TABLE 2

## PERCENT FREQUENCY OF WEATHER OCCURRENCE BY HOUR

HOUR (GMT)	PRECIPITATION TYPE							OTHER WEATHER PHENOMENA								
	RAIN	RAIN SHWR	DRZL	FRZG PCPN	SNOW	OTHER FRZN PCPN	HAIL	PCPN AT DB TIME	PCPN PAST HOUR	THDR LTNG	FOG WD PCPN	FOG WD PCPN PAST HR	SMOKE HAZE	SPRAY BLWG BLWG	DUST SNOW	NO SIG WEA
0000	.0	13.2	5.3	.0	.0	.0	2.6	21.1	.0	.0	7.9	.0	.0	.0	.0	71.1
0600	7.7	21.2	1.9	.0	.0	.0	1.9	32.7	1.9	.0	5.8	.0	.0	.0	.0	59.6
1200	3.2	32.3	.0	.0	.0	.0	6.5	41.9	.0	.0	6.5	.0	3.2	.0	.0	48.4
1800	3.9	13.7	3.9	.0	.0	.0	11.8	33.3	2.0	.0	7.8	.0	.0	.0	.0	56.9
TOT PCT TOT OBS:	4.1 172	19.2	2.9	.0	.0	.0	5.8	32.0	1.2	.0	7.0	.0	.6	.0	.0	59.3

TABLE 3

## PERCENTAGE FREQUENCY OF WIND DIRECTION BY SPEED AND BY HOUR

WIND DIR	WIND SPEED (KNOTS)							TOTAL OBS	PCT FREQ	MEAN SPD	HOUR (GMT)							
	0-3	4-10	11-21	22-33	34-47	48+					00	03	06	09	12	15	18	21
N	.5	5.0	8.5	4.5	.7	.0		19.2	16.3		22.7	14.8	21.7	23.1	.0	15.9	22.6	26.3
NE	.0	1.7	2.0	1.2	.0	.0		5.0	15.6		.0	7.4	3.3	3.8	.0	6.8	4.8	5.3
E	.0	.0	1.0	.2	.0	.0		1.2	17.2		.0	1.9	.0	3.8	.0	.0	1.6	.0
SE	.0	1.0	.4	.1	.0	.2		1.7	18.1		.0	2.8	.0	.0	3.1	2.3	2.4	2.6
S	.0	2.5	5.8	.4	1.5	.2		10.4	18.9		.0	7.4	11.7	7.7	21.9	11.4	13.7	15.8
SW	.0	4.2	8.0	.0	2.0	.0		14.2	16.8		13.6	14.8	13.3	15.4	37.5	20.5	6.6	7.9
W	.0	4.9	12.4	3.9	3.7	.5		25.4	20.8		34.1	20.4	28.3	25.0	9.4	27.3	27.4	31.6
NW	.0	4.1	10.7	6.6	1.0	.5		22.9	18.7		29.5	30.6	21.7	21.2	28.1	15.9	21.0	10.5
VAR	.0	.0	.0	.0	.0	.0		.0	.0		.0	.0	.0	.0	.0	.0	.0	.0
CALM	.0	.0	.0	.0	.0	.0		.0	.0		.0	.0	.0	.0	.0	.0	.0	.0
TOT OBS	1	47	98	34	18	3	201	100.0	18.3		100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0
TOT PCT	.5	23.4	48.8	16.9	9.0	1.5												

TABLE 3A

WIND DIR	0-6	WIND SPEED (KNOTS)				41+ TOTAL OBS	PCT FREQ	MEAN SPD	HOUR (GMT)			
		7-16	17-27	28-40	00 03				06 09	12 15	18 21	
N	1.2	10.7	4.5	2.2	.5		19.2	16.3	16.2	22.3	11.7	24.0
NE	1.0	1.2	2.2	.5	.0		5.0	15.6	6.2	3.6	3.0	5.0
E	.0	.5	.7	.0	.0		1.2	17.2	1.5	1.8	.0	1.0
SE	.2	1.0	.2	.0	.2		1.7	18.1	2.3	.0	2.5	2.5
S	1.2	3.5	4.0	.5	1.2		10.4	18.9	6.2	9.8	14.2	14.5
SW	1.2	6.7	4.2	1.0	1.0		14.2	16.8	14.6	14.3	25.0	7.0
W	.7	8.5	4.7	3.5	3.0		25.4	20.8	22.7	26.8	22.5	29.0
NW	1.7	9.2	7.2	4.2	.5		22.9	18.7	30.4	21.4	19.2	17.0
VAR	.0	.0	.0	.0	.0		.0	.0	.0	.0	.0	.0
CALM	.0	.0	.0	.0	.0		.0	.0	.0	.0	.0	.0
TOT OBS	15	83	66	24	13	201	100.0	18.3	65	56	30	50
TOT PCT	7.5	41.3	32.8	11.9	6.5				100.0	100.0	100.0	100.0



PERIOD: (PRIMARY) 1877-1967  
(OVER-ALL) 1859-1967

SEPTEMBER

AREA 0011 TASMANIA WEST  
43.45 144.0E

TABLE 4

PERCENTAGE FREQUENCY OF WIND SPEED BY HOUR (GMT)

HOUR	CALM	1-3	4-10	WIND SPEED (KNOTS)			48+	MEAN	PCT FREQ	TOTAL OBS
				11-21	22-33	34-47				
00003	.0	.0	26.2	38.5	23.1	10.8	1.5	19.2	100.0	65
06009	.0	.0	28.6	46.4	12.5	10.7	1.8	18.0	100.0	56
12015	.0	.0	20.0	63.3	5.7	6.7	3.3	17.3	100.0	30
18021	.0	2.0	16.0	56.0	20.0	6.0	.0	18.2	100.0	50
TOT	0	1	47	98	34	18	3	18.3		201
PCT	.0	.5	23.4	48.8	15.9	9.0	1.5	100.0		

TABLE 5

PCT FREQ OF TOTAL CLOUD AMOUNT (EIGHTHS)  
BY WIND DIRECTION

WIND DIR	0-2	3-4	5-7	8 & OBSCD	TOTAL OBS	MEAN CLOUD COVER
N	.0	5.6	.0	5.6		5.7
NE	.0	.0	.0	5.6		8.0
E	.0	.0	.0	.0		.0
SE	.0	.0	1.4	.0		5.0
S	.0	.0	4.2	.0		5.0
SW	.0	.0	8.3	5.6		7.2
W	4.2	13.9	2.8	5.6		4.5
NW	6.9	19.4	11.1	.0		3.3
VAR	.0	.0	.0	.0		.0
CALM	.0	.0	.0	.0		.0
TOT OBS	2	7	5	4	18	4.8
TOT PCT	11.1	38.9	27.8	22.2	100.0	

TABLE 6

PERCENTAGE FREQUENCY OF CEILING HEIGHTS (FT, NH >4/8)  
AND OCCURRENCE OF NH <5/8 BY WIND DIRECTION

000	150	300	600	1000	2000	3500	5000	6500	8000+	NH <5/8 ANY HGT	TOTAL OBS
149	299	599	999	1999	3499	4999	6499	7999			
.0	.0	.0	.0	.0	.0	5.6	.0	.0	.0	5.6	
.0	.0	.0	.0	.0	5.6	.0	.0	.0	.0	.0	
.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
.0	.0	.0	1.4	.0	.0	.0	.0	.0	.0	.0	
.0	.0	.0	4.2	.0	.0	.0	.0	.0	.0	.0	
.0	.0	.0	5.6	.0	5.6	.0	2.8	.0	.0	.0	
.0	.0	.0	.0	5.6	.0	.0	2.8	.0	.0	18.1	
.0	.0	.0	.0	5.6	.0	.0	.0	.0	.0	31.9	
.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
.0	.0	.0	2	2	2	1	1	0	0	10	
.0	.0	.0	11.1	11.1	11.1	5.6	5.6	.0	.0	55.6	18
											100.0

TABLE 7

CUMULATIVE PCT FREQ OF SIMULTANEOUS OCCURRENCE  
OF CEILING HEIGHT (NH >4/8) AND VSBY (NM)

CEILING (FEET)	VSBY (NM)							
	>10	>5	>2	>1	>1/2	>1/4	>50YD	>0
>4500	.0	.0	.0	.0	.0	.0	.0	.0
>4000	.0	5.6	5.6	5.6	5.6	5.6	5.6	5.6
>3500	5.6	11.1	11.1	11.1	11.1	11.1	11.1	11.1
>3000	11.1	22.2	22.2	22.2	22.2	22.2	22.2	22.2
>2500	22.2	33.3	33.3	33.3	33.3	33.3	33.3	33.3
>2000	27.8	44.4	44.4	44.4	44.4	44.4	44.4	44.4
>1500	27.8	44.4	44.4	44.4	44.4	44.4	44.4	44.4
>1000	27.8	44.4	44.4	44.4	44.4	44.4	44.4	44.4
>500	27.8	44.4	44.4	44.4	44.4	44.4	44.4	44.4
>0	27.8	44.4	44.4	44.4	44.4	44.4	44.4	44.4
TOTAL	5	8	8	8	8	8	8	8

TOTAL NUMBER OF OBS: 18

PCT FREQ NH <5/8: 55.6

TABLE 7A

PERCENTAGE FREQ OF LOW CLOUDS (EIGHTHS)

0	1	2	3	4	5	6	7	8	OBSCD	TOTAL OBS
4.3	4.3	8.7	21.7	4.3	13.0	8.7	4.3	30.4	.0	23

PERIOD: (PRIMARY) 1877-1967  
(OVER-ALL) 1859-1967

SEPTEMBER

AREA 0011 TASMANIA WEST  
43.45 144.0E

TABLE 8

PERCENT FREQ OF WIND DIRECTION VS OCCURRENCE OR NON-OCCURRENCE OF  
PRECIPITATION WITH VARYING VALUES OF VISIBILITY

VSBY (NM)		N	NE	E	SE	S	SW	W	NW	VAR	CALM	PCT	TOTAL OBS
<1/2	PCP	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
	NO PCP	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
	TOT %	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
1/2<1	PCP	.6	.0	.0	.0	1.2	.3	1.5	1.2	.0	.0	4.7	.0
	NO PCP	.6	1.2	.0	.0	.0	1.8	2.6	.3	.0	.0	6.4	.0
	TOT %	1.2	1.2	.0	.0	1.2	2.0	4.1	1.5	.0	.0	11.1	.0
1<2	PCP	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
	NO PCP	.3	.3	.0	.0	.0	.0	.0	.0	.0	.0	.6	.0
	TOT %	.3	.3	.0	.0	.0	.0	.0	.0	.0	.0	.6	.0
2<5	PCP	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
	NO PCP	.0	.0	.0	.0	.0	.0	.0	.6	.0	.0	.6	.0
	TOT %	.0	.0	.0	.0	.0	.0	.0	.6	.0	.0	.6	.0
5<10	PCP	3.8	.9	.3	.1	3.4	5.3	9.5	5.4	.0	.0	28.7	.0
	NO PCP	13.5	2.3	.6	.9	5.0	6.4	11.1	7.0	.0	.0	46.8	.0
	TOT %	17.3	3.2	.9	1.0	8.3	11.7	20.6	12.4	.0	.0	75.4	.0
10+	PCP	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
	NO PCP	2.0	.6	.0	.1	1.0	.6	2.5	5.4	.0	.0	12.3	.0
	TOT %	2.0	.6	.0	.1	1.0	.6	2.5	5.4	.0	.0	12.3	.0
TOT OBS													
TOT PCT													
		20.8	5.3	.9	1.2	10.5	14.3	27.2	19.9	.0	.0	100.0	171

TABLE 9

PERCENT FREQ OF WIND DIRECTION VS WIND SPEED  
WITH VARYING VALUES OF VISIBILITY

VSBY (NM)	SPD KTS	N	NE	E	SE	S	SW	W	NW	VAR	CALM	PCT	TOTAL OBS
<1/2	0-3	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
	4-10	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
	11-21	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
	22+	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
	TOT %	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
1/2<1	0-3	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
	4-10	.0	.6	.0	.0	.0	.0	.6	.0	.0	.0	.0	.0
	11-21	1.2	.0	.0	.0	.0	2.0	3.2	1.2	.0	.0	.0	.0
	22+	.0	.6	.0	.0	1.2	.0	.3	.3	.0	.0	.0	.0
	TOT %	1.2	1.2	.0	.0	1.2	2.0	4.1	1.5	.0	.0	.0	.0
1<2	0-3	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
	4-10	.3	.3	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
	11-21	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
	22+	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
	TOT %	.3	.3	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
2<5	0-3	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
	4-10	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
	11-21	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
	22+	.0	.0	.0	.0	.0	.0	.0	.6	.0	.0	.0	.0
	TOT %	.0	.0	.0	.0	.0	.0	.0	.6	.0	.0	.0	.0
5<10	0-3	.6	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
	4-10	5.0	.6	.0	.6	2.3	4.1	3.2	2.3	.0	.0	.0	.0
	11-21	7.9	2.3	.6	.3	5.0	5.8	10.1	7.2	.0	.0	.0	.0
	22+	3.8	.3	.3	.1	1.0	1.8	7.3	2.9	.0	.0	.0	.0
	TOT %	17.3	3.2	.9	1.0	8.3	11.7	20.6	12.4	.0	.0	.0	.0
10+	0-3	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
	4-10	.0	.0	.0	.0	.0	.6	1.6	1.3	.0	.0	.0	.0
	11-21	.9	.0	.0	.1	1.0	.0	.4	2.2	.0	.0	.0	.0
	22+	1.2	.6	.0	.0	.0	.0	.4	1.9	.0	.0	.0	.0
	TOT %	2.0	.6	.0	.1	1.0	.6	2.5	5.4	.0	.0	.0	.0
TOT OBS													
TOT PCT													
		20.8	5.3	.9	1.2	10.5	14.3	27.2	19.9	.0	.0	100.0	171

SEPTEMBER

PERIOD: (PRIMARY) 1877-1967  
(OVER-ALL) 1859-1967

AREA 0011 TASMANIA WEST  
43.45 144.0E

TABLE 10

PERCENT FREQUENCY OF CEILING HEIGHTS (FEET, NH >4/8) AND  
OCCURRENCE OF NH <5/8 BY HOUR

HOUR (GMT)	000 149	150 299	300 599	600 999	1000 1999	2000 3499	3500 4999	5000 6499	6500 7999	8000+	TOTAL	NH <5/8 ANY HGT	TOTAL OBS
00003	.0	.0	.0	.0	.0	.0	.0	25.0	.0	.0	25.0	75.0	4
06009	.0	.0	.0	.0	25.0	.0	25.0	.0	.0	.0	50.0	50.0	4
12015	.0	.0	.0	33.3	.0	.0	.0	.0	.0	.0	33.3	66.7	3
18021	.0	.0	.0	14.3	14.3	28.6	.0	.0	.0	.0	57.1	42.9	7
TOT	0	0	0	2	2	2	1	1	0	0	8	10	18
PCT	.0	.0	.0	11.1	11.1	11.1	5.6	5.6	.0	.0	44.4	55.6	100.0

TABLE 11

PERCENT FREQUENCY VS BY (NM) BY HOUR

HOUR (GMT)	<1/2	1/2<1	1<2	2<5	5<10	10+	TOTAL OBS
00003	.0	15.8	.0	.0	76.3	7.9	38
06009	.0	10.9	.0	1.8	80.0	7.3	55
12015	.0	6.5	3.2	.0	67.7	22.6	31
18021	.0	11.8	.0	.0	74.5	13.7	51
TOT	0	20	1	1	132	21	175
PCT	.0	11.4	.6	.6	75.4	12.0	100.0

TABLE 12

CUMULATIVE PCT FREQ OF RANGES OF VS BY (NM) AND/OR  
CEILING HGT (FEET, NH >4/8), BY HOUR

HOUR (GMT)	<150 <50YD	<600 <1	<1000 <5	1000+ AND5+	NH <5/8 AND 5+	TOTAL OBS
00003	.0	.0	.0	25.0	75.0	4
06009	.0	.0	.0	50.0	50.0	4
12015	.0	.0	33.3	.0	66.7	3
18021	.0	.0	14.3	42.9	42.9	7
TOT	0	0	2	6	10	18
PCT	.0	.0	11.1	33.3	55.6	100.0

TABLE 13

PERCENT FREQUENCY OF RELATIVE HUMIDITY BY TEMP

TEMP F	0-29	30-39	40-49	50-59	60-69	70-79	80-89	90-100	TOTAL OBS	PCT FREQ
55/59	.0	.0	.0	.0	.0	.0	9.1	.0	2	9.1
50/54	.0	.0	.0	.0	.0	31.8	18.2	18.2	15	68.2
45/49	.0	.0	.0	.0	9.1	4.5	9.1	.0	5	22.7
TOTAL	0	0	0	0	2	8	8	4	22	100.0
PCT	.0	.0	.0	.0	9.1	36.4	36.4	18.2		

TABLE 14

PERCENT FREQUENCY OF WIND DIRECTION BY TEMP

	N	NE	E	SE	S	SW	W	NW	VAR	CALM
55/59	.0	.0	.0	.0	.0	.0	3.4	5.7	.0	.0
50/54	13.6	4.5	.0	.0	.0	.0	14.8	35.2	.0	.0
45/49	.0	.0	.0	2.3	6.8	11.4	2.3	.0	.0	.0
TOTAL	13.6	4.5	.0	2.3	6.8	11.4	20.5	40.9	.0	.0

TABLE 15

MEANS, EXTREMES AND PERCENTILES OF TEMP (DEG F) BY HOUR

HOUR (GMT)	MAX	99%	95%	50%	5%	1%	MIN	MEAN	TOTAL OBS
00003	60	59	55	51	44	37	37	50.1	66
06009	55	54	54	50	44	40	40	49.8	58
12015	55	54	53	48	45	44	44	48.2	31
18021	54	53	53	48	41	38	38	48.1	53
TOT	60	55	54	50	44	38	37	49.3	208

TABLE 16

PERCENT FREQUENCY OF RELATIVE HUMIDITY BY HOUR

HOUR (GMT)	0-29	30-59	60-69	70-79	80-89	90-100	MEAN	TOTAL OBS
00003	.0	.0	20.0	.0	60.0	20.0	81	5
06009	.0	.0	.0	40.0	20.0	40.0	84	5
12015	.0	.0	.0	80.0	20.0	.0	77	5
18021	.0	.0	14.3	28.6	42.9	14.3	80	7
TOT	0	0	2	8	8	4	80	22

SEPTEMBER

PERIOD: (PRIMARY) 1877-1967  
(OVER-ALL) 1859-1967

AREA 0011 TASMANIA WEST  
43.45 144.0E

TABLE 17

PCT FREQ OF AIR TEMPERATURE (DEG F) AND THE OCCURRENCE OF FOG (WITHOUT PRECIPITATION)  
VS AIR-SEA TEMPERATURE DIFFERENCE (DEG F)

AIR-SEA TMP DIF	37 40	41 44	45 48	49 52	53 56	TOT FOG	W FOG	ND FOG
6	.0	.0	.0	.0	.6	1	.0	.6
4	.0	.0	.0	.0	1.8	3	.0	1.8
3	.0	.0	.0	.0	3.7	6	.0	3.7
2	.0	.0	.0	1.8	4.9	11	.0	6.7
1	.0	.0	.6	4.9	3.7	15	.6	8.6
0	.0	.0	2.5	13.5	3.1	31	2.5	16.6
-1	.0	.0	6.1	8.6	.0	24	1.2	13.5
-2	.0	.0	1.8	5.5	.0	12	.6	6.7
-3	.0	.0	7.4	2.5	.0	16	.0	9.8
-4	.0	.6	9.2	1.2	.0	18	1.2	9.8
-5	.0	.6	6.7	.6	.0	13	1.2	6.7
-6	.0	.0	2.5	.0	.0	4	.0	2.5
-7/-8	.6	1.8	.0	.0	.0	4	.0	2.5
-9/-10	1.2	1.8	.0	.0	.0	5	.0	3.1
TOTAL	3	8	60	63	29	163	12	151
PCT	1.8	4.9	36.8	38.7	17.8	100.0	7.4	92.6

PERIOD: (OVER-ALL) 1963-1967

TABLE 18

PCT FREQ OF WIND SPEED (KTS) AND DIRECTION VERSUS SEA HEIGHTS (FT)

HGT	1-3	4-10	11-21	22-33	34-47	48+	PCT	1-3	4-10	11-21	22-33	34-47	48+	PCT
<1	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
1-2	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
3-4	.0	.0	.0	10.0	.0	.0	10.0	.0	.0	.0	.0	.0	.0	.0
5-6	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
7	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
8-9	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
10-11	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
12	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
13-16	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	10.0	.0	.0	10.0
17-19	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
20-22	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
23-25	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
26-32	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
33-40	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
41-48	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
49-60	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
61-70	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
71-86	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
87+	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
TOT PCT	.0	.0	.0	10.0	.0	.0	10.0	.0	.0	.0	10.0	.0	.0	10.0

HGT	1-3	4-10	11-21	22-33	34-47	48+	PCT	1-3	4-10	11-21	22-33	34-47	48+	PCT
<1	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
1-2	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
3-4	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
5-6	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
7	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
8-9	.0	.0	.0	.0	.0	.0	.0	.0	.0	2.5	2.5	.0	.0	5.0
10-11	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
12	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
13-16	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
17-19	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
20-22	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
23-25	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
26-32	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
33-40	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
41-48	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
49-60	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
61-70	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
71-86	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
87+	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
TOT PCT	.0	.0	.0	.0	.0	.0	.0	.0	.0	2.5	2.5	.0	.0	5.0

PERIOD: (OVER-ALL) 1963-1967

SEPTEMBER

AREA 0011 TASMANIA WEST  
43.45 144.0E

TABLE 18 (CONT)

PCT FREQ OF WIND SPEED (KTS) AND DIRECTION VERSUS SEA HEIGHTS (FT)

HGT	S							PCT	SW							PCT
	1-3	4-10	11-21	22-33	34-47	48+			1-3	4-10	11-21	22-33	34-47	48+		
<1	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
1-2	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
3-4	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
5-6	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
7	.0	.0	7.5	7.5	.0	.0	15.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
8-9	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
10-11	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
12	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
13-16	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
17-19	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
20-22	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
23-25	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
26-32	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
33-40	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
41-48	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
49-60	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
61-70	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
71-86	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
87+	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
TOT PCT	.0	.0	7.5	7.5	.0	.0	15.0	.0	.0	.0	.0	.0	.0	.0	.0	.0

HGT	W							PCT	NW							PCT	TOTAL PCT
	1-3	4-10	11-21	22-33	34-47	48+			1-3	4-10	11-21	22-33	34-47	48+			
<1	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
1-2	.0	.0	7.5	.0	.0	.0	7.5	.0	.0	.0	2.5	.0	.0	.0	.0	2.5	.0
3-4	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
5-6	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
7	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	20.0	.0	.0	.0	.0	20.0	.0
8-9	.0	.0	7.5	.0	.0	.0	7.5	.0	.0	.0	2.5	10.0	.0	.0	.0	12.5	.0
10-11	.0	.0	.0	7.5	.0	.0	7.5	.0	.0	.0	.0	2.5	.0	.0	.0	2.5	.0
12	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
13-16	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
17-19	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
20-22	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
23-25	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
26-32	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
33-40	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
41-48	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
49-60	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
61-70	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
71-86	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
87+	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
TOT PCT	.0	.0	15.0	7.5	.0	.0	22.5	.0	.0	.0	25.0	12.5	.0	.0	.0	37.5	100.0

WIND SPEED (KTS) VS SEA HEIGHT (FT)

HGT	0-3	4-10	11-21	22-33	34-47	48+	PCT	TOT DBS
<1	.0	.0	.0	.0	.0	.0	.0	.0
1-2	.0	.0	10.0	.0	.0	.0	10.0	.0
3-4	.0	.0	.0	10.0	.0	.0	10.0	.0
5-6	.0	.0	.0	.0	.0	.0	.0	.0
7	.0	.0	30.0	10.0	.0	.0	40.0	.0
8-9	.0	.0	10.0	10.0	.0	.0	20.0	.0
10-11	.0	.0	.0	10.0	.0	.0	10.0	.0
12	.0	.0	.0	.0	.0	.0	.0	.0
13-16	.0	.0	.0	10.0	.0	.0	10.0	.0
17-19	.0	.0	.0	.0	.0	.0	.0	.0
20-22	.0	.0	.0	.0	.0	.0	.0	.0
23-25	.0	.0	.0	.0	.0	.0	.0	.0
26-32	.0	.0	.0	.0	.0	.0	.0	.0
33-40	.0	.0	.0	.0	.0	.0	.0	.0
41-48	.0	.0	.0	.0	.0	.0	.0	.0
49-60	.0	.0	.0	.0	.0	.0	.0	.0
61-70	.0	.0	.0	.0	.0	.0	.0	.0
71-86	.0	.0	.0	.0	.0	.0	.0	.0
87+	.0	.0	.0	.0	.0	.0	.0	.0
TOT PCT	.0	.0	50.0	50.0	.0	.0	100.0	10

PERIOD: (OVER-ALL) 1949-1967

TABLE 19

PERCENT FREQUENCY OF WAVE HEIGHT (FT) VS WAVE PERIOD (SECONDS)

PERIOD (SEC)	<1	1-2	3-4	5-6	7	8-9	10-11	12	13-16	17-19	20-22	23-25	26-32	33-40	41-48	49-60	61-70	71-86	87+	TOTAL	MEAN HGT
<6	.0	.0	5.3	5.3	10.5	.0	21.1	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	8
6-7	.0	.0	.0	.0	10.5	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	7
8-9	.0	.0	.0	.0	.0	.0	21.1	5.3	.0	5.3	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	11
10-11	.0	.0	.0	10.5	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	5
12-13	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
>13	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
INDEX	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
TOTAL	.0	.0	1	3	4	4	5	.0	1	.0	1	.0	.0	.0	.0	.0	.0	.0	.0	.0	19
PCT	.0	.0	5.3	15.8	21.1	21.1	26.3	.0	5.3	.0	5.3	.0	.0	.0	.0	.0	.0	.0	.0	.0	100.0



PERIOD: (PRIMARY) 1874-1966  
(OVER-ALL) 1854-1966

OCTOBER

AREA 0011 TASMANIA WEST  
43.55 144.2E

TABLE 1

PERCENT FREQUENCY OF WEATHER OCCURRENCE BY WIND DIRECTION

PRECIPITATION TYPE										OTHER WEATHER PHENOMENA						
WIND DIR	RAIN	RAIN SHWR	DRZL	FRZG PCPN	SNOW	OTHR FRZN PCPN	HAIL	PCPN AT DB TIME	PCPN PAST HOUR	THOR LTNG	FGG WD PCPN	FGG WD PCPN PAST HR	SMOKE HAZE	SPRAY BLWG DUST SNOW	NO SIG WEA	
N	37.2	9.3	9.3	.0	.0	.0	.0	55.8	.0	4.7	.0	.0	.0	.0	44.2	
NE	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	7.4	.0	.0	.0	92.6	
E	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	100.0	
SE	9.5	9.5	.0	.0	.0	.0	.0	19.0	.0	.0	.0	.0	.0	.0	81.0	
S	2.4	16.9	.0	.0	.0	.0	14.5	33.7	.0	.0	7.2	.0	.0	.0	59.0	
SW	27.0	16.2	.0	.0	.0	.0	.0	43.2	.0	.0	21.6	.0	.0	.0	35.1	
W	6.0	15.0	.0	.0	.0	.0	.0	21.1	.0	.0	13.5	.0	1.5	.0	63.9	
NW	14.9	14.9	.0	.0	.0	.0	.0	35.8	.0	1.5	9.0	.0	1.5	.0	53.7	
VAR	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
CALM	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
TOT PCT	10.9	12.4	2.2	.0	.0	.0	2.2	27.7	.0	.7	8.8	.0	.7	.0	62.8	
TOT OBS:	137															

TABLE 2

PERCENT FREQUENCY OF WEATHER OCCURRENCE BY HOUR

HOUR (GMT)	PRECIPITATION TYPE								OTHER WEATHER PHENOMENA							
	RAIN	RAIN SHWR	DRZL	FRZG PCPN	SNOW	OTHR FRZN PCPN	HAIL	PCPN AT OB TIME	PCPN PAST HOUR	THOR LTNG	FGG WD PCPN	FGG WD PCPN PAST HR	SMOKE HAZE	SPRAY BLWG DUST BLWG SNOW	NO SIG WEA	
00603	13.3	.0	.0	.0	.0	.0	.0	13.3	.0	.0	3.3	.0	3.3	.0	80.0	
06609	11.1	13.3	2.2	.0	.0	.0	.0	26.7	.0	2.2	8.9	.0	.0	.0	64.4	
12615	12.1	12.1	3.0	.0	.0	.0	3.0	30.3	.0	.0	3.0	.0	.0	.0	66.7	
18621	5.4	24.3	2.7	.0	.0	.0	5.4	37.8	.0	.0	16.2	.0	.0	.0	45.9	
TOT PCT	10.3	13.1	2.1	.0	.0	.0	2.1	27.6	.0	.7	8.3	.0	.7	.0	63.4	
TOT OBS:	145															

TABLE 3

PERCENTAGE FREQUENCY OF WIND DIRECTION BY SPEED AND BY HOUR

WIND DIR	WIND SPEED (KNOTS)							48+	TOTAL OBS	PCT FREQ	MEAN SPD	HOUR (GMT)							
	0-3	4-10	11-21	22-33	34-47	00	03					06	09	12	15	18	21		
N	.0	2.0	4.3	2.1	.8	.3	9.4	19.4	11.1	18.0	6.7	4.2	8.3	6.0	5.4	6.7			
NE	.5	4.3	4.3	1.3	.0	.0	10.4	13.8	.0	11.0	13.3	6.3	8.3	10.0	13.0	13.3			
E	2.1	1.3	.8	2.4	.0	.0	6.6	13.2	.0	10.0	10.0	2.1	16.7	.0	6.5	3.3			
SE	.0	4.5	2.4	1.1	.0	.0	8.0	13.2	.0	3.0	13.3	12.5	4.2	12.0	6.5	10.0			
S	.8	2.5	4.3	5.3	.5	.3	13.7	18.7	5.6	10.0	6.7	16.7	10.4	12.0	19.6	36.7			
SW	.5	3.3	2.9	1.1	.3	.3	8.4	13.9	16.7	13.0	3.3	4.2	2.1	8.0	10.9	6.7			
W	1.3	5.9	7.8	4.3	.3	.0	19.5	15.0	22.2	14.0	27.5	25.0	20.8	22.0	17.4	10.0			
NW	.5	4.4	8.4	5.9	2.9	.3	22.3	19.9	44.4	21.0	19.2	20.8	29.2	30.0	16.3	13.3			
VAR	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0			
CALM	1.6						1.6	.0	.0	.0	.0	8.3	.0	.0	4.3	.0			
TOT OBS	14	53	66	44	9	2	188	16.3	9	50	30	24	12	25	23	15			
TOT PCT	7.4	28.2	35.1	23.4	4.8	1.1		100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0			

TABLE 3A

WIND DIR	0-6	WIND SPEED (KNOTS)					TOTAL OBS	PCT FREQ	MEAN SPD	HOUR (GMT)				
		7-16	17-27	28-40	41+	00 03				06 09	12 15	18 21		
N	.0	4.7	2.7	1.6	.5			9.4	19.4	16.9	5.6	6.8	5.9	
NE	1.1	5.1	3.5	.8	.0			10.4	13.8	9.8	10.2	9.5	13.2	
E	2.9	.8	2.1	.8	.0			6.6	13.2	8.5	6.5	5.4	5.3	
SE	.8	4.5	2.1	.5	.0			8.0	13.2	2.5	13.0	9.5	7.9	
S	.8	5.5	5.1	2.1	.3			13.7	18.7	9.8	11.1	11.5	26.3	
SW	2.4	3.3	2.1	.0	.5			8.4	13.9	13.6	3.7	6.1	9.2	
W	3.2	8.8	4.9	2.4	.3			19.5	15.0	15.3	26.4	21.6	14.5	
NW	2.1	7.3	7.3	4.5	1.1			22.3	19.9	24.6	19.9	29.7	15.1	
VAR	.0	.0	.0	.0	.0			.0	.0	.0	.0	.0	.0	
CALM	1.6							1.6	.0	.0	3.7	.0	2.6	
TOT OBS	28	75	56	24	5	188		16.3		59	54	37	38	
TOT PCT	14.9	39.9	29.8	12.8	2.7			100.0		100.0	100.0	100.0	100.0	

AREA 0011 TASMANIA WEST  
43.55 144.2E

TABLE 4

PERCENTAGE FREQUENCY OF WIND SPEED BY HOUR (GMT)

HOUR	CALM	WIND SPEED (KNOTS)					48+	MEAN	PCT FREQ	TOTAL OBS
		1-3	4-10	11-21	22-33	34-47				
0000	0	3.4	27.1	37.3	22.0	6.8	3.4	17.9	100.0	59
0600	3.7	3.7	35.2	33.3	18.5	5.6	0	15.0	100.0	54
1201	0	8.1	18.9	37.8	32.4	2.7	0	17.9	100.0	38
1821	2.6	10.8	28.9	31.1	22.0	4.8	0	14.0	100.0	90
TOT	3	11	53	60	44	9	2	10.3		188
PCT	1.6	5.9	28.2	35.1	23.4	4.8	1.1	100.0		

TABLE 5

PCT FREQ OF TOTAL CLOUD AMOUNT (EIGHTHS)  
BY WIND DIRECTION

WIND DIR	0-2	3-4	5-7	8 & C OBSCD	TOTAL OBS	MEAN CLOUD COVER
N	8.3	.0	.0	.0		1.0
NE	.0	.0	.0	.0		.0
E	.0	.0	.0	.0		.0
SE	.0	.0	.0	.0		.0
S	.0	8.3	.0	.0		3.0
SW	.0	2.8	11.1	.0		6.2
W	.0	19.4	.0	.0		3.0
NW	25.0	2.8	22.2	.0		2.6
VAR	.0	.0	.0	.0		.0
CALM	.0	.0	.0	.0		.0
TOT OBS	3	3	3		9	3.1
TOT PCT	33.3	33.3	33.3	.0	100.0	

TABLE 6

PERCENTAGE FREQUENCY OF CEILING HEIGHTS (FT, NH  $\geq 4/8$ )  
AND OCCURRENCE OF NH  $\leq 5/8$  BY WIND DIRECTION

000	150	300	600	1000	2000	3500	5000	6500	8000+	NH	C5/B	TOTAL
149	299	599	999	1999	3499	4999	6499	7999		ANY	HGT	DBS
.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	8.3	
.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	8.3	
.0	.0	.0	11.1	.0	.0	.0	.0	.0	.0	.0	2.8	
.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	19.4	
.0	.0	.0	.0	.0	11.1	.0	.0	.0	.0	.0	38.9	
.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
.0	.0	.0	.0	1	0	0	0	0	0	0	7	
.0	.0	.0	11.1	.0	11.1	.0	.0	.0	.0	.0	77.8	100.0

TABLE 7

CUMULATIVE PCT FREQ OF SIMULTANEOUS OCCURRENCE  
OF CEILING HEIGHT (NH >4/8) AND VSBY (NM)

CEILING (FEET)	VSBY (NM)							
	■ DR ≥10	■ DR ≥5	■ DR ≥2	■ DR ≥1	■ DR ≥1/2	■ DR ≥1/4	■ DR ≥0+0	■ DR ≥0
■ DR ≥5000	.0	.0	.0	.0	.0	.0	.0	.0
■ DR ≥4000	.0	.0	.0	.0	.0	.0	.0	.0
■ DR ≥3500	.0	.0	.0	.0	.0	.0	.0	.0
■ DR ≥2000	10.0	10.0	10.0	10.0	10.0	10.0	10.0	10.0
■ DR ≥1000	20.0	20.0	20.0	20.0	20.0	20.0	20.0	20.0
■ DR ≥600	30.0	30.0	30.0	30.0	30.0	30.0	30.0	30.0
■ DR ≥300	30.0	30.0	30.0	30.0	30.0	30.0	30.0	30.0
■ DR ≥150	30.0	30.0	30.0	30.0	30.0	30.0	30.0	30.0
■ DR ≥ 0	30.0	30.0	30.0	30.0	30.0	30.0	30.0	30.0
TOTAL	3	3	3	3	3	3	3	3

TOTAL NUMBER OF OBS: 10

PCT FREQ NH <5/81 70.0

TABLE 7A

PERCENTAGE FREQ OF LOW CLOUDS (EIGHTHS)

0	1	2	3	4	5	6	7	8	DBSCD	TOTAL OBS
16.7	25.0	8.3	16.7	.0	8.3	16.7	8.3	.0	.0	12

PERIOD: (PRIMARY) 1874-1966  
(OVER-ALL) 1854-1966

OCTOBER

AREA 0011 TASMANIA WEST  
43.5S 144.2E

TABLE 8

PERCENT FREQ OF WIND DIRECTION VS OCCURRENCE OR NON-OCCURRENCE OF  
PRECIPITATION WITH VARYING VALUES OF VISIBILITY

VSBY (NM)		N	NE	E	SE	S	SW	W	NW	VAR	CALM	PCT	TOTAL OBS
<1/2	PCP	.0	.0	.0	.0	.0	.0	.0	.7	.0	.0	.7	
	NO PCP	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
	TOT %	.0	.0	.0	.0	.0	.0	.0	.7	.0	.0	.7	
1/2<1	PCP	.7	.0	.0	.0	.7	.7	2.2	.0	.0	.0	4.4	
	NO PCP	.0	.7	.0	.0	1.1	1.5	3.3	2.2	.0	.0	8.8	
	TOT %	.7	.7	.0	.0	1.1	2.2	4.0	4.4	.0	.0	13.1	
1<2	PCP	.0	.0	.0	.0	.0	.7	.0	.0	.0	.0	.7	
	NO PCP	.0	.0	.0	.0	.0	.0	.4	.4	.0	.0	.7	
	TOT %	.0	.0	.0	.0	.0	.0	1.1	.4	.0	.0	1.5	
2<5	PCP	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
	NO PCP	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
	TOT %	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
5<10	PCP	3.6	.0	.0	1.5	4.4	2.2	3.6	4.4	.0	.0	19.7	
	NO PCP	1.5	9.1	3.3	5.5	6.9	1.5	13.5	9.1	.0	.0	50.4	
	TOT %	5.1	9.1	3.3	6.9	11.3	3.6	17.2	13.5	.0	.0	70.1	
10+	PCP	.0	.0	.0	.0	.7	.0	.0	1.5	.0	.0	2.2	
	NO PCP	2.0	.0	.7	.7	2.0	.9	2.0	4.0	.0	.0	12.4	
	TOT %	2.0	.0	.7	.7	2.7	.9	2.0	5.5	.0	.0	14.6	
TOT OBS													137
TOT PCT		7.8	9.9	4.0	7.7	15.1	6.8	24.3	24.5	.0	.0	100.0	

TABLE 9

PERCENT FREQ OF WIND DIRECTION VS WIND SPEED  
WITH VARYING VALUES OF VISIBILITY

VSBY (NM)	SPD KTS	N	NE	E	SE	S	SW	W	NW	VAR	CALM	PCT	TOTAL OBS
<1/2	0-3	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
	4-10	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.7	
	11-21	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
	22+	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
	TOT %	.0	.0	.0	.0	.0	.0	.0	.7	.0	.0	.7	
1/2<1	0-3	.0	.0	.0	.0	.7	.0	.0	.7	.0	.0	1.4	
	4-10	.0	.0	.0	.0	.0	1.1	1.8	.0	.0	.0	2.8	
	11-21	.0	.7	.0	.0	.0	.7	2.1	2.1	.0	.0	5.7	
	22+	.7	.0	.0	.0	.4	.4	.0	1.4	.0	.0	2.8	
	TOT %	.7	.7	.0	.0	1.1	2.1	3.9	4.3	.0	.0	12.8	
1<2	0-3	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
	4-10	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
	11-21	.0	.0	.0	.0	.0	.0	.4	.4	.0	.0	.7	
	22+	.0	.0	.0	.0	.0	.0	.7	.0	.0	.0	.7	
	TOT %	.0	.0	.0	.0	.0	.0	1.1	.4	.0	.0	1.4	
2<5	0-3	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
	4-10	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
	11-21	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
	22+	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
	TOT %	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
5<10	0-3	.0	.7	2.8	.0	.0	.0	1.4	.0	.0	.0	5.0	
	4-10	.0	5.0	.0	5.0	1.4	1.1	4.6	2.8	.0	.0	19.9	
	11-21	2.5	2.5	.4	1.1	5.0	2.1	6.4	3.5	.0	.0	23.4	
	22+	2.5	.7	.0	.7	4.6	.4	4.3	6.7	.0	.0	19.9	
	TOT %	5.0	8.9	3.2	6.7	11.0	3.5	10.7	13.1	.0	.0	68.1	
10+	0-3	.0	.0	.0	.0	.4	.7	.4	.0	.0	.0	1.4	
	4-10	1.2	.0	.7	.7	2.0	2.0	1.1	2.3	.0	.0	9.9	
	11-21	.7	.0	.0	.0	.0	.0	1.2	3.0	.0	.0	5.0	
	22+	.0	.0	.0	.0	.7	.0	.0	.0	.0	.0	.7	
	TOT %	2.0	.0	.7	.7	3.0	2.7	2.7	5.3	.0	.0	17.0	
TOT OBS													141
TOT PCT		7.6	9.6	3.9	7.4	15.1	8.3	24.3	23.8	.0	.0	100.0	

PERIOD: (PRIMARY) 1874-1966  
(OVER-ALL) 1854-1966

OCTOBER

AREA 0011 TASMANIA WEST  
43.55 144.2E

TABLE 10

PERCENT FREQUENCY OF CEILING HEIGHTS (FEET, NH >4/8) AND  
OCCURRENCE OF NH <3/8 BY HOUR

HOUR (GMT)	000	150	300	600	1000	2000	3500	5000	6500	8000+	TOTAL	NH <3/8 ANY HGT	TOTAL OBS
00003	.0	.0	.0	20.0	.0	.0	.0	.0	.0	.0	20.0	80.0	5
06009	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	100.0	1
12015	.0	.0	.0	.0	.0	50.0	.0	.0	.0	.0	50.0	50.0	2
18021	.0	.0	.0	.0	33.3	.0	.0	.0	.0	.0	33.3	66.7	3
TOT	0	0	0	1	1	1	0	0	0	0	3	8	11
PCT	.0	.0	.0	9.1	9.1	9.1	.0	.0	.0	.0	27.3	72.7	100.0

TABLE 11

PERCENT FREQUENCY VSBY (NM) BY HOUR

HOUR (GMT)	<1/2	1/2<1	1<2	2<5	5<10	10+	TOTAL OBS
00003	.0	9.4	2.1	.0	56.3	31.3	32
06009	.0	17.0	2.1	.0	72.3	8.5	47
12015	.0	9.1	.0	.0	75.8	15.2	33
18021	2.7	16.2	.0	.0	62.2	18.9	37
TOT	1	20	2	0	100	26	149
PCT	.7	13.4	1.3	.0	67.1	17.4	100.0

TABLE 12

CUMULATIVE PCT FREQ OF RANGES OF VSBY (NM) AND/OR  
CEILING HGT (FEET, NH >4/8), BY HOUR

HOUR (GMT)	<150 <500YD	<600 <1	<1000 <5	1000+ AND 3+	NH <3/8 AND 3+	TOTAL OBS
00003	.0	.0	25.0	.0	75.0	4
06009	.0	.0	.0	.0	100.0	1
12015	.0	.0	.0	50.0	50.0	2
18021	.0	.0	.0	33.3	66.7	3
TOT	0	0	1	2	7	10
PCT	.0	.0	10.0	20.0	70.0	100.0

TABLE 13

PERCENT FREQUENCY OF RELATIVE HUMIDITY BY TEMP

TEMP F	0-29	30-39	40-49	50-59	60-69	70-79	80-89	90-100	TOTAL OBS	PCT FREQ
55/59	.0	.0	.0	.0	18.2	9.1	.0	18.2	5	45.5
50/54	.0	.0	.0	.0	.0	18.2	18.2	.0	4	36.4
45/49	.0	.0	.0	9.1	.0	9.1	.0	.0	2	18.2
TOTAL	0	0	0	1	2	4	2	2	11	100.0
PCT	.0	.0	.0	9.1	18.2	36.4	18.2	18.2		

TABLE 14

PERCENT FREQUENCY OF WIND DIRECTION BY TEMP

N	NE	E	SE	S	SW	W	NW	VAR	C&M
15.9	.0	.0	.0	9.1	.0	9.1	11.4	.0	.0
9.1	.0	.0	.0	.0	.0	15.9	11.4	.0	.0
.0	.0	.0	.0	6.8	11.4	.0	.0	.0	.0
25.0	.0	.0	.0	15.9	11.4	25.0	22.7	.0	.0

TABLE 15

MEANS, EXTREMES AND PERCENTILES OF TEMP (DEG F) BY HOUR

HOUR (GMT)	MAX	99%	95%	50%	5%	1%	MIN	MEAN	TOTAL OBS
00003	63	62	58	53	47	45	45	52.8	59
06009	59	58	56	51	45	44	44	51.3	55
12015	58	57	55	50	45	43	43	49.8	38
18021	55	54	54	49	42	42	42	49.0	41
TOT	63	59	56	51	45	42	42	51.0	193

TABLE 16

PERCENT FREQUENCY OF RELATIVE HUMIDITY BY HOUR

HOUR (GMT)	0-29	30-39	60-69	70-79	80-89	90-100	MEAN	TOTAL OBS
00003	.0	20.0	20.0	40.0	20.0	.0	72	5
06009	.0	.0	50.0	.0	50.0	.0	71	2
12015	.0	.0	.0	50.0	.0	50.0	86	2
18021	.0	.0	.0	66.7	.0	33.3	82	3
TOT	0	1	2	5	2	2	76	12

PERIOD: (PRIMARY) 1874-1966  
(OVER-ALL) 1854-1966

# OCTOBER

AREA 0011 TASMANIA WPST  
43.55 144.2E

TABLE 17

PCT FREQ OF AIR TEMPERATURE (DEG F) AND THE OCCURRENCE OF FOG (WITHOUT PRECIPITATION)  
VS AIR-SEA TEMPERATURE DIFFERENCE (DEG F)

AIR-SEA TMP DIF	41 44	45 48	49 52	53 56	57 60	TOT	N FOG	WD FOG
5	.0	.0	.0	1.4	.7	3	.0	2.1
4	.0	.0	.0	.7	.0	1	.0	.7
3	.0	.0	.0	1.4	.7	3	.0	2.1
2	.0	.0	1.4	6.4	.7	12	1.4	7.1
1	.0	.0	7.1	10.0	.0	24	.0	17.1
0	.0	2.1	9.3	7.9	.0	27	.0	19.3
-1	.0	1.4	10.0	2.1	.0	19	2.1	11.4
-2	.0	2.9	10.0	.7	.0	19	3.6	10.0
-3	.0	1.4	4.3	.7	.0	9	.7	5.7
-4	.0	5.0	.7	.0	.0	8	.7	5.0
-5	.0	5.0	.0	.0	.0	7	.0	5.0
-6	2.1	2.1	.0	.0	.0	6	.0	4.3
-7/-8	1.4	.0	.0	.0	.0	2	.0	1.4
TOTAL	5	28	60	44	3	140	12	128
PCT	3.6	20.0	42.9	31.4	2.1	100.0	8.6	91.4

PERIOD: (OVER-ALL) 1963-1966

TABLE 18

PCT FREQ OF WIND SPEED (KTS) AND DIRECTION VERSUS SEA HEIGHTS (FT)

HGT	N						PCT	NE						PCT
	1-3	4-10	11-21	22-33	34-47	48+		1-3	4-10	11-21	22-33	34-47	48+	
<1	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
1-2	.0	6.8	.0	.0	.0	.0	6.8	.0	.0	.0	.0	.0	.0	.0
3-4	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
5-6	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
7	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
8-9	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
10-11	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
12	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
13-16	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
17-19	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
20-22	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
23-25	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
26-32	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
33-40	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
41-48	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
49-60	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
61-70	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
71-86	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
87+	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
TOT PCT	.0	6.8	.0	.0	.0	.0	6.8	.0	.0	.0	.0	.0	.0	.0

HGT	E						PCT	SE						PCT
	1-3	4-10	11-21	22-33	34-47	48+		1-3	4-10	11-21	22-33	34-47	48+	
<1	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
1-2	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
3-4	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
5-6	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
7	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
8-9	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
10-11	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
12	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
13-16	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
17-19	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
20-22	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
23-25	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
26-32	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
33-40	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
41-48	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
49-60	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
61-70	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
71-86	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
87+	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
TOT PCT	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0



PERIOD: (OVER-ALL) 1963-1966

OCTOBER

AREA 0011 TASMANIA WEST  
43.55 144.2E

TABLE 18 (CONT)

PCT FREQ OF WIND SPEED (KTS) AND DIRECTION VERSUS SEA HEIGHTS (FT)

HGT	1-3	4-10	11-21	22-33	34-47	48+	PCT	1-3	4-10	11-21	22-33	34-47	48+	PCT	TOTAL PCT
<1	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
1-2	.0	.0	.0	.0	.0	.0	.0	.0	9.1	.0	.0	.0	.0	.0	.0
3-4	.0	6.8	.0	.0	.0	.0	6.8	.0	2.3	.0	.0	.0	.0	2.3	.0
5-6	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
7	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
8-9	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
10-11	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
12	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
13-16	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
17-19	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
20-22	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
23-25	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
26-32	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
33-40	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
41-48	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
49-60	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
61-70	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
71-86	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
87+	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
TOT PCT	.0	6.8	.0	.0	.0	.0	6.8	.0	11.4	.0	.0	.0	.0	11.4	.0

HGT	1-3	4-10	11-21	22-33	34-47	48+	PCT	1-3	4-10	11-21	22-33	34-47	48+	PCT	TOTAL PCT
<1	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
1-2	.0	.0	.0	.0	.0	.0	.0	.0	20.5	.0	.0	.0	.0	20.5	.0
3-4	.0	.0	9.1	.0	.0	.0	9.1	.0	9.1	9.1	.0	.0	.0	18.2	.0
5-6	.0	.0	6.8	.0	.0	.0	6.8	.0	.0	20.5	.0	.0	.0	20.5	.0
7	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
8-9	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
10-11	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
12	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
13-16	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
17-19	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
20-22	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
23-25	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
26-32	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
33-40	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
41-48	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
49-60	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
61-70	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
71-86	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
87+	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
TOT PCT	.0	.0	15.9	.0	.0	.0	15.9	.0	29.5	29.5	.0	.0	.0	59.1	100.0

WIND SPEED (KTS) VS SEA HEIGHT (FT)

HGT	0-3	4-10	11-21	22-33	34-47	48+	PCT	TOT OBS
<1	.0	.0	.0	.0	.0	.0	.0	.0
1-2	8.3	33.3	.0	.0	.0	.0	41.7	.0
3-4	.0	16.7	16.7	.0	.0	.0	33.3	.0
5-6	.0	.0	25.0	.0	.0	.0	25.0	.0
7	.0	.0	.0	.0	.0	.0	.0	.0
8-9	.0	.0	.0	.0	.0	.0	.0	.0
10-11	.0	.0	.0	.0	.0	.0	.0	.0
12	.0	.0	.0	.0	.0	.0	.0	.0
13-16	.0	.0	.0	.0	.0	.0	.0	.0
17-19	.0	.0	.0	.0	.0	.0	.0	.0
20-22	.0	.0	.0	.0	.0	.0	.0	.0
23-25	.0	.0	.0	.0	.0	.0	.0	.0
26-32	.0	.0	.0	.0	.0	.0	.0	.0
33-40	.0	.0	.0	.0	.0	.0	.0	.0
41-48	.0	.0	.0	.0	.0	.0	.0	.0
49-60	.0	.0	.0	.0	.0	.0	.0	.0
61-70	.0	.0	.0	.0	.0	.0	.0	.0
71-86	.0	.0	.0	.0	.0	.0	.0	.0
87+	.0	.0	.0	.0	.0	.0	.0	.0
TOT PCT	8.3	50.0	41.7	.0	.0	.0	100.0	12

PERIOD: (OVER-ALL) 1965-1966

TABLE 19

PERCENT FREQUENCY OF WAVE HEIGHT (FT) VS WAVE PERIOD (SECONDS)

PERIOD (SEC)	<1	1-2	3-4	5-6	7	8-9	10-11	12	13-16	17-19	20-22	23-25	26-32	33-40	41-48	49-60	61-70	71-86	87+	TOTAL	MEAN HGT
<6	.0	.0	16.7	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	2	3
6-7	.0	16.7	.0	8.3	8.3	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	4	4
8-9	.0	.0	.0	8.3	8.3	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	2	6
10-11	.0	.0	.0	.0	8.3	8.3	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	2	8
12-13	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	1	7
>13	.0	.0	.0	.0	.0	.0	.0	.0	8.3	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	1	15
INDET	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	0	0
TOTAL	0	2	2	2	4	1	0	0	1	0	0	0	0	0	0	0	0	0	0	12	6
PCT	.0	16.7	16.7	16.7	33.3	8.3	.0	.0	8.3	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	100.0	

PERIOD: (PRIMARY) 1880-1969  
(OVER-ALL) 1869-1969

# NOVEMBER

AREA 0011 TASMANIA WEST  
43.35 143.8E

TABLE 1

## PERCENT FREQUENCY OF WEATHER OCCURRENCE BY WIND DIRECTION

WIND DIR	PRECIPITATION TYPE						OTHER WEATHER PHENOMENA								
	RAIN	RAIN SHWR	DRZL	FRZG PCPN	SNOW	OTHER FRZN PCPN	HAIL	PCPN AT DB TIME	PCPN PAST HOUR	THDR LTNG	FGG WD PCPN	FGG WD PCPN PAST HR	SMOKE HAZE	SPRAY BLWG DUST	NO SIG WEA
N	14.9	12.8	2.1	.0	.0	.0	.0	29.8	.0	.0	2.1	.0	.0	.0	68.1
NE	15.4	15.4	.0	.0	.0	.0	.0	30.8	.0	.0	15.4	.0	.0	.0	53.8
E	28.6	7.1	14.3	.0	.0	.0	.0	50.0	.0	.0	.0	.0	.0	.0	50.0
SE	.0	2.4	.0	.0	.0	.0	.0	2.4	.0	.0	16.7	.0	.0	.0	81.0
S	.0	.0	11.1	.0	.0	.0	.0	11.1	.0	.0	16.7	.0	.0	.0	72.2
SW	4.8	35.5	6.5	.0	.0	.0	3.2	50.0	.0	.0	.0	.0	.0	.0	50.0
W	8.3	30.1	6.4	.0	.0	.0	1.5	46.2	1.5	1.5	3.0	.0	.0	.0	49.2
NW	5.7	13.0	6.9	.0	.0	.0	1.6	27.2	.0	.0	7.3	.0	.0	.0	55.4
VAR	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
CALM	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
TOT PCT	7.5	19.5	5.8	.0	.0	.0	1.3	34.1	.4	.4	5.8	.0	.0	.0	59.7
TOT OBS:	226														

TABLE 2

## PERCENT FREQUENCY OF WEATHER OCCURRENCE BY HOUR

HOUR (GMT)	PRECIPITATION TYPE						OTHER WEATHER PHENOMENA								
	RAIN	RAIN SHWR	DRZL	FRZG PCPN	SNOW	OTHER FRZN PCPN	HAIL	PCPN AT DB TIME	PCPN PAST HOUR	THDR LTNG	FGG WD PCPN	FGG WD PCPN PAST HR	SMOKE HAZE	SPRAY BLWG DUST	NO SIG WEA
00003	5.8	25.0	3.8	.0	.0	.0	.0	34.6	.0	.0	11.5	.0	.0	.0	53.8
06009	12.1	18.2	6.1	.0	.0	.0	.0	36.4	.0	1.5	6.1	.0	.0	.0	57.6
12015	6.4	10.6	10.6	.0	.0	.0	4.3	31.9	2.1	.0	.0	.0	.0	.0	66.0
18021	4.2	20.8	2.8	.0	.0	.0	1.4	29.2	.0	.0	4.2	.0	.0	.0	66.7
TOT PCT	7.2	19.0	5.5	.0	.0	.0	1.3	32.9	.4	.4	5.5	.0	.0	.0	61.2
TOT OBS:	237														

TABLE 3

## PERCENTAGE FREQUENCY OF WIND DIRECTION BY SPEED AND BY HOUR

WIND DIR	WIND SPEED (KNOTS)							TOTAL OBS	PCT FREQ	MEAN SPD	HOUR (GMT)							
	0-3	4-10	11-21	22-33	34-47	48+					00	03	06	09	12	15	18	21
N	1.2	1.4	4.6	3.2	.4	.0		10.8	17.1		3.3	9.0	13.2	19.6	12.5	15.3	5.7	7.4
NE	1.0	1.2	1.6	.4	.0	.0		4.2	10.9		16.7	8.0	3.9	5.4	.0	.0	1.1	1.9
E	1.0	1.6	1.4	.4	.0	.0		4.4	9.0		10.0	4.0	2.6	.0	8.3	6.9	6.8	.0
SE	.2	3.6	5.2	.0	.0	.0		9.0	10.8		3.3	11.0	7.9	7.1	8.3	12.5	9.1	7.4
S	.4	1.6	2.0	.0	.0	.0		4.0	10.6		6.7	4.0	2.6	7.1	4.2	1.4	2.3	7.4
SW	.2	1.6	8.4	2.4	.8	.0		13.4	19.1		13.3	18.0	17.1	5.4	4.2	9.7	13.6	15.7
W	.2	3.9	16.4	4.3	1.4	1.2		27.4	18.6		18.3	15.0	19.7	35.7	31.3	29.2	35.2	40.7
NW	.6	3.5	13.6	6.9	2.2	.0		26.8	18.6		26.3	31.0	32.9	19.6	31.3	25.0	26.1	18.5
VAR	.0	.0	.0	.0	.0	.0		.0	.0		.0	.0	.0	.0	.0	.0	.0	.0
CALM	.0	.0	.0	.0	.0	.0		.0	.0		.0	.0	.0	.0	.0	.0	.0	.0
TOT OBS	12	46	133	44	12	3	250		16.8		15	50	38	28	12	36	44	27
TOT PCT	4.8	18.4	53.2	17.6	4.8	1.2		100.0			100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0

TABLE 3A

WIND DIR	WIND SPEED (KNOTS)					TOTAL OBS	PCT FREQ	MEAN SPD	HOUR (GMT)			
	0-6	7-16	17-27	28-40	41+				00	06	12	18
N	2.0	2.0	5.6	1.0	.2		10.8	17.1	7.7	15.9	14.6	6.3
NE	1.8	.8	1.6	.0	.0		4.2	10.9	10.0	4.5	.0	1.4
E	2.6	1.0	.8	.0	.0		4.4	9.0	5.4	1.5	7.3	4.2
SE	2.2	5.6	1.2	.0	.0		9.0	10.8	9.2	7.6	11.5	8.5
S	.8	2.6	.6	.0	.0		4.0	10.6	4.6	4.5	2.1	4.2
SW	.4	2.0	9.0	2.0	.0		13.4	19.1	16.9	12.1	8.3	14.8
W	1.2	11.3	10.8	2.3	1.8		27.4	18.6	19.8	26.5	29.7	37.3
NW	2.6	8.3	11.2	4.3	.4		26.8	18.6	30.4	27.3	26.6	23.2
VAR	.0	.0	.0	.0	.0		.0	.0	.0	.0	.0	.0
CALM	.0	.0	.0	.0	.0		.0	.0	.0	.0	.0	.0
TOT OBS	34	84	102	24	6	250		16.8	65	66	48	71
TOT PCT	13.6	33.6	40.8	9.6	2.4		100.0		100.0	100.0	100.0	100.0

AREA 0011 TASMANIA WEST  
43.35 143.8E

PERCENTAGE FREQUENCY OF WIND SPEED BY HOUR (GMT)

HOUR	CALM	WIND					SPEED (KNOTS)	4+*	MEAN	PCT FREQ	TOTAL OBS
		1-3	4-10	11-21	22-33	34-47					
000003	.0	4.6	20.0	50.8	20.0	4.6	.0	16.6	100.0	65	
060409	.0	6.1	19.7	51.5	18.2	3.0	1.5	16.7	100.0	66	
120615	.0	4.2	16.7	54.2	16.7	6.3	2.1	17.1	100.0	78	
181221	.0	16.9	56.3	19.5	5.0	1.4	1.0	10.0	100.0	76	
TOT	.0	12	46	133	44	12	3	16.8		250	
PCT	.0	4.8	18.4	53.2	17.6	4	1.2	16.0	100.0		

PCT FREQ OF TOTAL CLOUD AMOUNT (EIGHTHS)  
BY WIND DIRECTION

WIND DIR	BY WIND VELOCITY				TOTAL OBS	MEAN CLOUD COVER
	0-2	3-4	5-7	8 & OBSCD		
N	.0	.0	.0	.0		.0
NE	.0	.0	.0	10.0		8.0
E	.0	.0	.0	.0		.0
SE	.0	.0	20.0	.0		6.5
S	.0	.0	.0	.0		.0
SW	.0	.0	.0	.0		.0
W	.0	10.0	17.5	7.5		5.8
NW	10.0	10.0	12.5	2.5		4.1
VAR	.0	.0	.0	.0		.0
CALM	.0	.0	.0	.0		.0
TOT OBS	1	2	5	2	10	5.6
TOT PCT	10.0	20.0	50.0	20.0	100.0	

PERCENTAGE FREQUENCY OF CEILING HEIGHTS (FT, NH  $\geq 4/8$ )  
AND OCCURRENCE OF NH  $< 5/8$  BY WIND DIRECTION

000 149	150 299	300 599	600 999	1000 1999	2000 3499	3500 4999	5000 6499	6500 7999	8000+	NH ANY	<5/8 HGT	TOTAL DBS
.0	.0	.0	.0	.0	.0	.0	.0	.0	.0			.0
.0	.0	.0	10.0	.0	.0	.0	.0	.0	.0			.0
.0	.0	.0	.0	.0	.0	.0	.0	.0	.0			.0
.0	.0	.0	.0	.0	20.0	.0	.0	.0	.0			.0
.0	.0	.0	.0	.0	.0	.0	.0	.0	.0			.0
.0	.0	.0	.0	.0	.0	.0	.0	.0	.0			.0
.0	.0	.0	17.5	.0	7.5	.0	.0	.0	.0			10.0
.0	.0	.0	2.5	.0	2.5	.0	.0	.0	.0			30.0
.0	.0	.0	.0	.0	.0	.0	.0	.0	.0			.0
.0	.0	.0	.0	.0	.0	.0	.0	.0	.0			.0
.0	.0	.0	3	.0	3	.0	.0	.0	.0			.4
.0	.0	.0	30.0	.0	30.0	.0	.0	.0	.0			100.0

CUMULATIVE PCT FREQ OF SIMULTANEOUS OCCURRENCE  
OF CEILING HEIGHT (NH >4/8) AND VSBY (NM)

[illegible]

PCT FREQ NH <5/81 36.4

PERCENTAGE FREQ OF LOW CLOUDS (EIGHTHS)

0	1	2	3	4	5	6	7	8	OBS CD	TOTAL OBS
18.2	.0	9.1	9.1	.0	18.2	27.3	18.2	.0	.0	11

NOVEMBER

PERIOD: (PRIMARY) 1880-1969  
(OVER-ALL) 1869-1969

AREA 0011 TASMANIA WEST  
43.35 143.8E

TABLE 8

PERCENT FREQ OF WIND DIRECTION VS OCCURRENCE OR NON-OCCURRENCE OF  
PRECIPITATION WITH VARYING VALUES OF VISIBILITY

VSBY (NM)		N	NE	E	SE	S	SW	W	NW	VAR	CALM	PCT	TOTAL OBS
<1/2	PCP	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
	NO PCP	.0	.4	.0	.0	.0	.0	.0	.0	.0	.0	.0	.4
	TOT %	.0	.4	.0	.0	.0	.0	.0	.0	.0	.0	.0	.4
1/2<1	PCP	.9	.0	.2	.2	.0	1.1	.9	2.9	.0	.0	.0	6.2
	NO PCP	.2	.0	.0	1.5	.7	.0	.9	2.0	.0	.0	.0	5.3
	TOT %	1.1	.0	.2	1.8	.7	1.1	1.8	4.9	.0	.0	.0	11.5
1<2	PCP	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
	NO PCP	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
	TOT %	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
2<5	PCP	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
	NO PCP	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
	TOT %	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
5<10	PCP	2.2	.9	1.3	.0	.4	5.8	12.7	4.1	.0	.0	.0	27.4
	NO PCP	7.1	1.5	1.5	6.6	2.9	6.9	13.7	16.8	.0	.0	.0	57.1
	TOT %	9.3	2.4	2.9	6.6	3.3	12.6	26.4	20.9	.0	.0	.0	84.5
10+	PCP	.0	.0	.0	.0	.0	.0	.0	.4	.0	.0	.0	.4
	NO PCP	.0	.0	.0	.0	.0	.0	1.2	1.0	.0	.0	.0	3.1
	TOT %	.0	.0	.0	.0	.0	.0	1.2	1.4	.0	.0	.0	3.5
TOT OBS													226
TOT PCT		10.4	2.9	3.1	9.3	4.0	13.7	29.4	27.2	.0	.0	100.0	

TABLE 9

PERCENT FREQ OF WIND DIRECTION VS WIND SPEED  
WITH VARYING VALUES OF VISIBILITY

VSBY (NM)	SPD KTS	N	NE	E	SE	S	SW	W	NW	VAR	CALM	PCT	TOTAL OBS
<1/2	0-3	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
	4-10	.0	.4	.0	.0	.0	.0	.0	.0	.0	.0	.0	.4
	11-21	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
	22+	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
	TOT %	.0	.4	.0	.0	.0	.0	.0	.0	.0	.0	.0	.4
1/2<1	0-3	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
	4-10	1.1	.0	.0	.0	.4	.4	.0	.2	.0	.0	.0	2.2
	11-21	.0	.0	.2	1.8	.2	.2	1.3	3.3	.0	.0	.0	7.1
	22+	.0	.0	.0	.0	.0	.4	.4	1.3	.0	.0	.0	2.2
	TOT %	1.1	.0	.2	1.8	.7	1.1	1.8	4.9	.0	.0	.0	11.5
1<2	0-3	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
	4-10	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
	11-21	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
	22+	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
	TOT %	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
2<5	0-3	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
	4-10	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
	11-21	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
	22+	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
	TOT %	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
5<10	0-3	.7	.0	1.1	.2	.4	.2	.2	.7	.0	.0	.0	3.5
	4-10	.4	.4	.4	3.1	.9	1.1	2.9	2.2	.0	.0	.0	11.5
	11-21	4.9	1.5	.9	3.3	2.0	9.1	16.4	10.6	.0	.0	.0	48.7
	22+	3.3	.4	.4	.0	.0	2.2	7.0	7.4	.0	.0	.0	20.8
	TOT %	9.3	2.4	2.9	6.6	3.3	12.6	26.4	20.9	.0	.0	.0	84.5
10+	0-3	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
	4-10	.0	.0	.0	.0	.0	.0	.8	.6	.0	.0	.0	2.2
	11-21	.0	.0	.0	.0	.0	.0	.4	.4	.0	.0	.0	.9
	22+	.0	.0	.0	.0	.0	.0	.0	.4	.0	.0	.0	.4
	TOT %	.0	.0	.0	.0	.0	.0	1.2	1.4	.0	.0	.0	3.5
TOT OBS													226
TOT PCT		10.4	2.9	3.1	9.3	4.0	13.7	29.4	27.2	.0	.0	100.0	

NOVEMBER

PERIOD: (PRIMARY) 1880-1969  
(OVER-ALL) 1869-1969

AREA 0011 TASMANIA WEST  
43.35 143.8E

TABLE 10

PERCENT FREQUENCY OF CEILING HEIGHTS (FEET) NH >4/8 AND  
OCCURRENCE OF NH <5/8 BY HOUR

HOUR (GMT)	000 149	150 299	300 599	600 999	1000 1999	2000 3499	3500 4999	5000 6499	6500 7999	8000+	TOTAL	NH <5/8 ANY HGT	TOTAL OBS
00003	.0	.0	.0	33.3	33.3	33.3	.0	.0	.0	.0	100.0	.0	3
06009	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	100.0	1
12015	.0	.0	.0	50.0	.0	25.0	.0	.0	.0	.0	75.0	25.0	4
18021	.0	.0	.0	.0	.0	33.3	.0	.0	.0	.0	33.3	66.7	3
TOT	0	0	0	3	1	3	0	0	0	0	7	4	11
PCT	.0	.0	.0	27.3	9.1	27.3	.0	.0	.0	.0	63.6	36.4	100.0

TABLE 11

PERCENT FREQUENCY VSBY (NM) BY HOUR

HOUR (GMT)	<1/2	1/2<1	1<2	2<5	5<10	10+	TOTAL OBS
00003	1.9	17.3	.0	.0	76.9	3.8	52
06009	.0	10.6	.0	.0	86.4	3.0	66
12015	.0	4.3	.0	.0	89.4	6.4	47
18021	.0	11.1	.0	.0	86.1	2.8	72
TOT	1	26	0	0	201	9	237
PCT	.4	11.0	.0	.0	84.8	3.8	100.0

TABLE 12

CUMULATIVE PCT FREQ OF RANGES OF VSBY (NM) AND/OR  
CEILING HGT (FEET) NH >4/8 BY HOUR

HOUR (GMT)	<150 <50YD	<600 <1	<1000 <5	1000+ AND 5+	NH <5/8 AND 5+	TOTAL OBS
00003	.0	.0	33.3	66.7	.0	3
06009	.0	.0	.0	.0	100.0	1
12015	.0	.0	50.0	25.0	25.0	4
18021	.0	.0	.0	33.3	66.7	3
TOT	0	0	3	4	4	11
PCT	.0	.0	27.3	36.4	36.4	100.0

TABLE 13

PERCENT FREQUENCY OF RELATIVE HUMIDITY BY TEMP

TEMP F	0-29	30-39	40-49	50-59	60-69	70-79	80-89	90-100	TOTAL OBS	PCT FREQ
60/64	.0	.0	.0	.0	.0	.0	10.0	10.0	2	20.0
55/59	.0	.0	.0	.0	.0	.0	10.0	10.0	4	40.0
50/54	.0	.0	.0	.0	.0	.0	20.0	20.0	4	40.0
TOTAL	0	0	0	0	0	3	4	3	10	100.0
PCT	.0	.0	.0	.0	.0	30.0	40.0	30.0		

TABLE 14

PERCENT FREQUENCY OF WIND DIRECTION BY TEMP

	N	NE	E	SE	S	SW	W	NW	VAR	CALM
60/64	.0	10.0	.0	.0	.0	.0	7.5	2.5	.0	.0
55/59	.0	.0	.0	10.0	.0	.0	17.5	12.5	.0	.0
50/54	.0	.0	.0	10.0	.0	.0	10.0	20.0	.0	.0
TOTAL	.0	10.0	.0	20.0	.0	.0	35.0	35.0	.0	.0

TABLE 15

MEANS, EXTREMES AND PERCENTILES OF TEMP (DEG F) BY HOUR

HOUR (GMT)	MAX	99%	95%	50%	5%	1%	MIN	MEAN	TOTAL OBS
00003	67	66	60	53	48	47	47	53.6	68
06009	69	68	58	53	49	48	48	53.0	67
12015	60	59	57	52	48	45	45	52.0	51
18021	59	58	56	52	46	44	44	51.6	75
TOT	69	61	58	52	48	45	44	52.6	261

TABLE 16

PERCENT FREQUENCY OF RELATIVE HUMIDITY BY HOUR

HOUR (GMT)	0-29	30-39	40-49	50-59	60-69	70-79	80-89	90-100	MEAN	TOTAL OBS
00003	.0	.0	.0	33.3	33.3	33.3	86	3		
06009	.0	.0	.0	100.0	.0	.0	79	1		
12015	.0	.0	.0	25.0	50.0	25.0	88	4		
18021	.0	.0	.0	33.3	33.3	33.3	87	3		
TOT	0	0	0	4	4	3	86	11		



## NOVEMBER

PERIOD: (PRIMARY) 1880-1969  
(OVER-ALL) 1869-1969

TABLE 17

AREA 0011 TASMANIA WEST  
43.35 143.8E

PCT FREQ OF AIR TEMPERATURE (DEG F) AND THE OCCURRENCE OF FOG (WITHOUT PRECIPITATION)  
VS AIR-SEA TEMPERATURE DIFFERENCE (DEG F)

AIR-SEA TMP DIF	41 44	45 48	49 52	53 56	57 60	61 64	65 68	TOT	W FOG	NO FOG
11/13	.0	.0	.0	.0	.0	.0	.4	1	.0	.4
9/10	.0	.0	.0	.0	.0	.4	.0	1	.0	.4
7/8	.0	.0	.0	.0	.4	.0	.0	1	.0	.4
6	.0	.0	.0	.0	.9	.0	.0	2	.0	.9
5	.0	.0	.0	.0	1.3	.0	.0	3	.0	1.3
4	.0	.0	.0	.9	1.3	.4	.0	6	.4	2.2
3	.0	.0	.9	6.2	1.8	.0	.0	20	.4	8.4
2	.0	.0	.9	6.2	1.3	.0	.0	19	.4	8.0
1	.0	.0	3.1	8.0	.4	.0	.0	26	1.8	9.7
0	.0	.0	7.5	7.1	1.8	.0	.0	37	1.3	15.0
-1	.0	.4	11.9	3.1	.0	.0	.0	35	.0	15.5
-2	.0	1.3	10.2	2.7	.0	.0	.0	32	.4	13.7
-3	.0	3.1	7.5	.0	.0	.0	.0	24	.9	9.7
-4	.0	2.2	2.2	.9	.0	.0	.0	12	.0	5.3
-5	.0	.9	1.3	.0	.0	.0	.0	5	.0	2.2
-6	.4	.4	.0	.0	.0	.0	.0	2	.0	.9
TOTAL	1	19	103	79	21	2	1	226	13	213
PCT	.4	8.4	45.6	35.0	9.3	.9	.4	100.0	5.8	94.2

PERIOD: (OVER-ALL) 1963-1969

TABLE 18

PCT FREQ OF WIND SPEED (KTS) AND DIRECTION VERSUS SEA HEIGHTS (FT)

HGT	1-3	4-10	11-21	22-33	34-47	48+	PCT	1-3	4-10	11-21	22-33	34-47	48+	PCT
<1	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
1-2	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
3-4	.0	.0	.0	.0	.0	.0	.0	.0	12.5	.0	.0	.0	.0	12.5
5-6	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
7	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
8-9	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
10-11	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
12	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
13-16	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
17-19	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
20-22	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
23-25	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
26-32	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
33-40	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
41-48	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
49-60	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
61-70	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
71-86	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
87+	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
TOT PCT	.0	.0	.0	.0	.0	.0	.0	.0	12.5	.0	.0	.0	.0	12.5

HGT	1-3	4-10	11-21	22-33	34-47	48+	PCT	1-3	4-10	11-21	22-33	34-47	48+	PCT
<1	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
1-2	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
3-4	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
5-6	.0	.0	.0	.0	.0	.0	.0	.0	25.0	.0	.0	.0	.0	25.0
7	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
8-9	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
10-11	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
12	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
13-16	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
17-19	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
20-22	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
23-25	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
26-32	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
33-40	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
41-48	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
49-60	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
61-70	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
71-86	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
87+	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
TOT PCT	.0	.0	.0	.0	.0	.0	.0	.0	25.0	.0	.0	.0	.0	25.0

PERIOD: (OVER-ALL) 1963-1969

NOVEMBER

AREA 0011 TASMANIA WEST  
43.35 143.8E

TABLE 18 (CONT)

PCT FREQ OF WIND SPEED (KTS) AND DIRECTION VERSUS SEA HEIGHTS (FT)

HGT	S							PCT	SW							PCT
	1-3	4-10	11-21	22-33	34-47	48+			1-3	4-10	11-21	22-33	34-47	48+		
<1	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
1-2	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
3-4	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
5-6	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
7	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
8-9	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
10-11	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
12	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
13-16	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
17-19	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
20-22	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
23-25	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
26-32	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
33-40	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
41-48	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
49-60	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
61-70	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
71-86	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
87+	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
TOT PCT	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0

HGT	W							PCT	NW							PCT	TOTAL PCT
	1-3	4-10	11-21	22-33	34-47	48+			1-3	4-10	11-21	22-33	34-47	48+			
<1	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
1-2	.0	12.5	.0	.0	.0	.0	12.5	.0	.0	.0	.0	.0	.0	.0	.0	.0	
3-4	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
5-6	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
7	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
8-9	.0	.0	12.5	.0	.0	.0	12.5	.0	.0	.0	.0	.0	12.5	.0	12.5	.0	
10-11	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	12.5	12.5	.0	25.0	.0	
12	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
13-16	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
17-19	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
20-22	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
23-25	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
26-32	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
33-40	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
41-48	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
49-60	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
61-70	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
71-86	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
87+	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
TOT PCT	.0	12.5	12.5	.0	.0	.0	25.0	.0	.0	.0	.0	12.5	25.0	.0	37.5	100.0	

WIND SPEED (KTS) VS SEA HEIGHT (FT)

HGT	0-3	4-10	11-21	22-33	34-47	48+	PCT	TOT OBS
<1	.0	.0	.0	.0	.0	.0	.0	
1-2	.0	12.5	.0	.0	.0	.0	12.5	
3-4	.0	12.5	.0	.0	.0	.0	12.5	
5-6	.0	25.0	.0	.0	.0	.0	25.0	
7	.0	.0	.0	.0	.0	.0	.0	
8-9	.0	.0	12.5	.0	12.5	.0	25.0	
10-11	.0	.0	.0	12.5	12.5	.0	25.0	
12	.0	.0	.0	.0	.0	.0	.0	
13-16	.0	.0	.0	.0	.0	.0	.0	
17-19	.0	.0	.0	.0	.0	.0	.0	
20-22	.0	.0	.0	.0	.0	.0	.0	
23-25	.0	.0	.0	.0	.0	.0	.0	
26-32	.0	.0	.0	.0	.0	.0	.0	
33-40	.0	.0	.0	.0	.0	.0	.0	
41-48	.0	.0	.0	.0	.0	.0	.0	
49-60	.0	.0	.0	.0	.0	.0	.0	
61-70	.0	.0	.0	.0	.0	.0	.0	
71-86	.0	.0	.0	.0	.0	.0	.0	
87+	.0	.0	.0	.0	.0	.0	.0	
TOT PCT	.0	50.0	12.5	12.5	25.0	.0	100.0	8

PERIOD: (OVER-ALL) 1961-1969

TABLE 19

PERCENT FREQUENCY OF WAVE HEIGHT (FT) VS WAVE PERIOD (SECONDS)

PERIOD (SEC)	<1	1-2	3-4	5-6	7	8-9	10-11	12	13-16	17-19	20-22	23-25	26-32	33-40	41-48	49-60	61-70	71-86	87+	TOTAL	MEAN HGT
<6	10.0	10.0	.0	20.0	.0	10.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	5
6-7	.0	.0	.0	.0	20.0	10.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	3
8-9	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	0
10-11	.0	.0	.0	.0	.0	.0	.0	20.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	2
12-13	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	0
>13	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	0
INDET	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	0
TOTAL	1	1	0	2	2	2	0	2	0	0	0	0	0	0	0	0	0	0	0	0	15
PCT	10.0	10.0	.0	20.0	20.0	20.0	.0	20.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	100.0

DECEMBER

PERIOD: (PRIMARY) 1881-1969  
(OVER-ALL) 1857-1969

AREA 0011 TASMANIA WEST  
43.25 143.8E

TABLE 1

PERCENT FREQUENCY OF WEATHER OCCURRENCE BY WIND DIRECTION

WIND DIR	PRECIPITATION TYPE							OTHER WEATHER PHENOMENA							
	RAIN	RAIN SHWR	DRZL	FRZG PCPN	SNOW	OTHER FRZN PCPN	HAIL	PCPN AT DB TIME	PCPN PAST HOUR	THDR LTNG	FGG WD PCPN	FGG WD PCPN PAST HR	SMOKE HAZE	SPRAY BLWG DUST	NO SIG WEA
N	4.6	3.1	9.2	.0	.0	.0	.0	16.8	.0	.0	9.2	.0	1.5	.0	72.5
NE	2.7	2.7	8.1	.0	.0	.0	.0	13.5	.0	.0	5.4	.0	5.4	.0	75.7
E	.0	3.7	.0	.0	.0	.0	.0	3.7	.0	.0	.0	.0	.0	.0	96.3
SE	.0	.0	7.4	.0	.0	.0	.0	7.4	.0	.0	.0	.0	.0	.0	92.6
S	11.0	8.8	6.6	.0	.0	.0	2.2	28.6	.0	.0	8.8	.0	.0	.0	62.6
SW	2.9	24.0	1.0	.0	.0	.0	2.9	30.6	.5	.0	6.7	.0	.0	.0	62.0
W	3.0	21.4	.0	.0	.0	.0	4.4	28.8	2.6	3.7	.7	.0	.0	.0	65.7
NW	4.0	17.9	1.0	.0	.0	.0	.0	22.9	.0	1.0	6.0	.0	1.0	.0	69.2
VAR	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
CALM	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	100.0
TOT PCT	3.6	14.5	2.9	.0	.0	.0	1.8	22.9	.7	1.1	4.7	.0	.7	.0	70.2
TOT OBS:	275														

TABLE 2

PERCENT FREQUENCY OF WEATHER OCCURRENCE BY HOUR

HOUR (GMT)	PRECIPITATION TYPE							OTHER WEATHER PHENOMENA							
	RAIN	RAIN SHWR	DRZL	FRZG PCPN	SNOW	OTHER FRZN PCPN	HAIL	PCPN AT DB TIME	PCPN PAST HOUR	THDR LTNG	FGG WD PCPN	FGG WD PCPN PAST HR	SMOKE HAZE	SPRAY BLWG DUST	NO SIG WEA
0000	3.6	18.2	3.6	.0	.0	.0	.0	25.5	.0	1.8	3.6	.0	.0	.0	69.1
0600	1.2	14.8	2.5	.0	.0	.0	.0	18.5	1.2	.0	6.2	.0	1.2	.0	72.8
1200	9.4	10.9	.0	.0	.0	.0	1.6	21.9	.0	3.1	7.8	.0	.0	.0	68.8
1800	4.7	14.0	4.7	.0	.0	.0	4.7	27.9	1.2	1.2	1.2	.0	1.2	.0	68.6
TOT PCT	4.5	14.3	2.8	.0	.0	.0	1.7	23.4	.7	1.4	4.5	.0	.7	.0	69.9
TOT OBS:	286														

TABLE 3

PERCENTAGE FREQUENCY OF WIND DIRECTION BY SPEED AND BY HOUR

WIND DIR	WIND SPEED (KNOTS)							TOTAL OBS	PCT FREQ	MEAN SPD	HOUR (GMT)							
	0-3	4-10	11-21	22-33	34-47	48+					00	03	06	09	12	15	18	21
N	.1	3.9	5.4	1.3	.3	.0		12.0	14.3		6.7	14.2	9.3	8.8	8.7	13.3	11.2	17.2
NE	.4	2.7	2.4	1.7	.1	.0		7.4	14.3		23.3	9.5	5.6	11.3	4.3	5.1	8.2	1.1
E	1.0	1.0	1.9	.7	.0	.0		4.6	12.7		10.0	4.7	5.6	2.5	4.3	7.1	2.0	3.3
SE	.3	2.6	1.6	.3	.0	.0		4.7	10.5		6.7	2.0	3.7	7.5	2.2	7.1	7.1	3.3
S	.6	1.0	5.2	3.4	.7	.0		10.8	18.9		3.3	11.1	13.0	10.0	15.2	11.2	12.2	6.7
SW	.9	3.4	8.9	4.7	1.8	.0		19.6	18.1		30.0	15.9	24.1	21.3	17.4	17.3	19.9	18.9
W	.2	4.5	10.2	5.2	1.9	.0		22.0	18.4		11.7	23.6	19.4	17.5	33.7	20.4	19.9	27.8
NW	.1	4.7	7.4	3.2	.9	.0		16.3	16.6		8.3	14.9	15.7	21.3	14.1	16.3	15.3	19.4
VAR	.0	.0	.0	.0	.0	.0		.0	.0		.0	.0	.0	.0	.0	.0	.0	.0
CALM	2.6							2.6	.0		.0	4.1	3.7	.0	.0	2.0	4.1	2.2
TOT OBS	22	83	153	71	20	0	349		16.2		15	74	54	40	23	49	49	45
TOT PCT	6.3	23.8	43.8	20.3	5.7	.0		100.0			100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0

TABLE 3A

WIND DIR	0-6	WIND SPEED (KNOTS)				41+	TOTAL OBS	PCT FREQ	MEAN SPD	HOUR (GMT)			
		7-16	17-27	28-40	00 03					06 09	12 15	18 21	
N	1.1	6.5	4.0	.1	.1		12.0	14.3	12.9	9.0	11.8	14.1	
NE	1.7	2.7	2.4	.6	.0		7.4	14.3	11.8	8.0	4.9	4.8	
E	1.3	2.0	.6	.7	.0		4.6	12.7	5.6	4.3	6.3	2.7	
SE	1.7	1.9	1.1	.0	.0		4.7	10.5	2.8	5.3	5.6	5.3	
S	.9	3.1	5.4	1.1	.3		10.8	18.9	9.8	11.7	12.5	9.6	
SW	2.9	5.4	7.7	3.1	.6		19.6	18.1	18.3	22.9	17.4	19.4	
W	1.9	8.9	6.2	4.2	.7		22.0	18.4	21.6	18.6	24.7	23.7	
NW	1.0	8.5	4.1	2.1	.6		16.3	16.6	13.8	18.1	15.6	17.3	
VAR	.0	.0	.0	.0	.0		.0	.0	.0	.0	.0	.0	
CALM	2.6						2.6	.0	3.4	2.1	1.4	3.2	
TOT OBS	53	136	110	42	8	349		16.2	89	94	72	94	
TOT PCT	15.2	39.0	31.5	12.0	2.3		100.0		100.0	100.0	100.0	100.0	

PERIOD: (PRIMARY) 1881-1969  
(OVER-ALL) 1857-1969

DECEMBER

AREA 0011 TASMANIA WEST  
43.25 143.8E

TABLE 4

PERCENTAGE FREQUENCY OF WIND SPEED BY HOUR (GMT)

HOUR	CALM	1-3	4-10	WIND SPEED (KNOTS)				48+	MEAN	PCT FREQ	TOTAL OBS
				11-21	22-33	34-47					
0000	3.4	4.5	20.2	47.2	19.1	5.6	.0	16.2	100.0	89	
0600	2.1	2.1	23.4	43.6	23.4	5.3	.0	16.5	100.0	94	
1200	1.1	5.6	19.4	45.8	19.4	8.3	.0	17.1	100.0	72	
1800	3.2	3.2	30.9	39.4	19.1	4.3	.0	15.2	100.0	94	
TOT	9	13	83	153	71	20	0	16.2		349	
PCT	2.6	3.7	23.8	43.8	20.3	5.7	.0	100.0			

TABLE 5

PCT FREQ OF TOTAL CLOUD AMOUNT (EIGHTHS)  
BY WIND DIRECTION

WIND DIR	0-2	3-4	5-7	8 & 6	TOTAL	MEAN CLOUD COVER
				OBS	OBS	
N	.0	.0	.0	4.5		8.0
NE	.0	.0	.0	.0		.0
E	.0	.0	18.2	.0		7.0
SE	1.1	1.1	.0	.0		2.5
S	3.4	3.4	9.1	.0		3.9
SW	.0	.0	6.8	1.1		6.8
W	.0	.0	10.2	3.4		6.7
NW	.0	4.5	23.9	4.5		6.7
VAR	.0	.0	.0	.0		.0
CALM	4.5	.0	.0	.0		.0
TOT OBS	2	2	15	3	22	6.0
TOT PCT	9.1	9.1	68.2	13.6	100.0	

TABLE 6

PERCENTAGE FREQUENCY OF CEILING HEIGHTS (FT, NH >4/8)  
AND OCCURRENCE OF NH <5/8 BY WIND DIRECTION

	000	150	300	600	1000	2000	3500	5000	6500	8000+	NH <5/8	TOTAL
	149	299	599	999	1999	3499	4999	6499	7999		ANY HGT	OBS
N	.0	.0	.0	.0	4.5	.0	.0	.0	.0	.0	.0	.0
NE	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
E	.0	.0	.0	.0	.0	.0	.0	9.1	9.1	.0	.0	.0
SE	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	2.3
S	.0	.0	.0	.0	.0	.0	4.5	.0	.0	.0	.0	11.4
SW	.0	.0	4.5	1.1	1.1	.0	.0	.0	.0	.0	.0	1.1
W	.0	.0	.0	3.4	3.4	3.4	.0	.0	.0	.0	.0	3.4
NW	.0	.0	.0	.0	.0	3.7	9.1	4.5	.0	.0	.0	13.6
VAR	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
CALM	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	4.5
TOT OBS	0	0	1	1	2	2	3	3	2	0	0	22
TOT PCT	.0	.0	4.5	4.5	9.1	9.1	13.6	13.6	9.1	.0	36.4	100.0

TABLE 7

CUMULATIVE PCT FREQ OF SIMULTANEOUS OCCURRENCE  
OF CEILING HEIGHT (NH >4/8) AND VSBY (NM)

CEILING (FEET)	VSBY (NM)							
	>10	>5	>2	>1	>1/2	>1/4	>50YD	>0
>5000	.0	4.5	9.1	9.1	9.1	9.1	9.1	9.1
>4000	4.5	18.2	22.7	22.7	22.7	22.7	22.7	22.7
>3500	18.2	31.8	36.4	36.4	36.4	36.4	36.4	36.4
>3000	22.7	40.9	45.5	45.5	45.5	45.5	45.5	45.5
>2500	22.7	45.5	54.5	54.5	54.5	54.5	54.5	54.5
>2000	22.7	50.0	59.1	59.1	59.1	59.1	59.1	59.1
>1500	27.3	54.5	63.6	63.6	63.6	63.6	63.6	63.6
>1000	27.3	54.5	63.6	63.6	63.6	63.6	63.6	63.6
>500	27.3	54.5	63.6	63.6	63.6	63.6	63.6	63.6
>0	27.3	54.5	63.6	63.6	63.6	63.6	63.6	63.6
TOTAL	6	12	14	14	14	14	14	14

TOTAL NUMBER OF OBS: 22

PCT FREQ NH <5/8: 36.4

TABLE 7A

PERCENTAGE FREQ OF LOW CLOUDS (EIGHTHS)

	0	1	2	3	4	5	6	7	8	OBS	TOTAL
											OBS
	3.6	10.7	7.1	3.6	3.6	10.7	7.1	39.3	14.3	.0	28

PERIOD: (PRIMARY) 1881-1969  
(OVER-ALL) 1857-1969

DECEMBER

AREA 0011 TASMANIA WEST  
43.25 143.8E

TABLE 8

PERCENT FREQ OF WIND DIRECTION VS OCCURRENCE OR NON-OCCURRENCE OF  
PRECIPITATION WITH VARYING VALUES OF VISIBILITY

VSBY (NM)		N	NE	E	SE	S	SW	W	NW	VAR	CALM	PCT	TOTAL OBS
<1/2	PCP	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
	NO PCP	.0	.0	.0	.0	.4	.0	.0	.0	.0	.0	.4	.4
	TOT %	.0	.0	.0	.0	.4	.0	.0	.0	.0	.0	.4	.4
1/2<1	PCP	1.3	.2	.0	.4	.0	.0	.0	.0	.0	.0	1.8	1.8
	NO PCP	1.1	.4	.0	.0	.4	1.1	.0	1.1	.0	.0	4.0	4.0
	TOT %	2.4	.5	.0	.4	.4	1.1	.0	1.1	.0	.0	5.8	5.8
1<2	PCP	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
	NO PCP	.2	.4	.0	.0	.0	.0	.0	.2	.0	.0	.7	.7
	TOT %	.2	.4	.0	.0	.0	.0	.0	.2	.0	.0	.7	.7
2<5	PCP	.0	.0	.0	.0	.4	.0	.0	.0	.0	.0	.4	.4
	NO PCP	.4	.0	.4	.0	.0	.0	.0	.0	.0	.0	.7	.7
	TOT %	.4	.0	.4	.0	.4	.0	.0	.0	.0	.0	1.1	1.1
5<10	PCP	.7	.7	.2	.0	2.0	5.8	7.1	4.2	.0	.0	20.7	20.7
	NO PCP	6.9	5.1	3.6	4.4	3.3	10.4	15.6	10.7	.0	1.1	61.1	61.1
	TOT %	7.6	5.8	3.8	4.4	5.3	16.2	22.7	14.9	.0	1.1	81.8	81.8
10+	PCP	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
	NO PCP	1.4	.0	.7	.2	1.9	1.6	1.9	2.1	.0	.4	10.2	10.2
	TOT %	1.4	.0	.7	.2	1.9	1.6	1.9	2.1	.0	.4	10.2	10.2
TOT OBS													275
TOT PCT													100.0

TABLE 9

PERCENT FREQ OF WIND DIRECTION VS WIND SPEED  
WITH VARYING VALUES OF VISIBILITY

VSBY (NM)	SPD KTS	N	NE	E	SE	S	SW	W	NW	VAR	CALM	PCT	TOTAL OBS
<1/2	0-3	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
	4-10	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
	11-21	.0	.0	.0	.0	.4	.0	.0	.0	.0	.0	.4	.4
	22+	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
	TOT %	.0	.0	.0	.0	.4	.0	.0	.0	.0	.0	.4	.4
1/2<1	0-3	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
	4-10	.5	.2	.0	.4	.0	.4	.0	.0	.0	.0	1.5	1.5
	11-21	1.3	.2	.0	.0	.0	.7	.0	1.1	.0	.0	3.3	3.3
	22+	.5	.2	.0	.0	.4	.0	.0	.0	.0	.0	1.1	1.1
	TOT %	2.4	.5	.0	.4	.4	1.1	.0	1.1	.0	.0	5.8	5.8
1<2	0-3	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
	4-10	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
	11-21	.2	.4	.0	.0	.0	.0	.0	.2	.0	.0	.7	.7
	22+	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
	TOT %	.2	.4	.0	.0	.0	.0	.0	.2	.0	.0	.7	.7
2<5	0-3	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
	4-10	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
	11-21	.0	.0	.4	.0	.4	.0	.0	.0	.0	.0	.7	.7
	22+	.4	.0	.0	.0	.0	.0	.0	.0	.0	.0	.4	.4
	TOT %	.4	.0	.4	.0	.4	.0	.0	.0	.0	.0	1.1	1.1
5<10	0-3	.0	.2	.5	.4	.7	1.2	.3	.0	.0	1.1	4.4	4.4
	4-10	2.9	1.6	.4	2.0	.2	3.2	4.8	4.5	.0	.0	19.6	19.6
	11-21	4.5	1.8	2.0	1.6	1.3	6.9	10.4	6.4	.0	.0	34.9	34.9
	22+	.2	2.2	.9	.6	3.1	4.9	7.3	4.0	.0	.0	22.9	22.9
	TOT %	7.6	5.8	3.8	4.4	5.3	16.2	22.7	14.9	.0	1.1	81.8	81.8
10+	0-3	.0	.0	.7	.0	.0	.0	.0	.0	.0	.4	1.1	1.1
	4-10	.4	.0	.0	.4	.0	.4	.0	1.1	.0	.0	2.2	2.2
	11-21	.3	.0	.0	.2	1.3	1.1	1.3	1.0	.0	.0	5.1	5.1
	22+	.7	.0	.0	.0	.3	.5	.3	.0	.0	.0	1.8	1.8
	TOT %	1.4	.0	.7	.2	1.9	1.6	1.9	2.1	.0	.4	10.2	10.2
TOT OBS													275
TOT PCT													100.0



DECEMBER

PERIOD: (PRIMARY) 1881-1969  
(OVER-ALL) 1857-1969

AREA 0011 TASMANIA WEST  
43.25 143.8E

TABLE 10

PERCENT FREQUENCY OF CEILING HEIGHTS (FEET, NH >4/8) AND  
OCCURRENCE OF NH <3/8 BY HOUR

HR	000	150	300	600	1000	2000	3500	5000	6500	8000+	TOTAL	NH <3/8	TOTAL
(GMT)	149	299	599	999	1999	3499	4999	6499	7999			ANY HGT	OBS
00003	.0	.0	.0	.0	.0	33.3	.0	.0	33.3	.0	66.7	33.3	3
06009	.0	.0	16.7	.0	.0	.0	16.7	.0	16.7	.0	50.0	50.0	6
12015	.0	.0	.0	12.5	25.0	12.5	12.5	12.5	.0	.0	75.0	25.0	8
18021	.0	.0	.0	.0	.0	.0	20.0	40.0	.0	.0	60.0	40.0	5
TOT	0	0	1	1	2	2	3	3	2	0	14	8	22
PCT	.0	.0	4.5	4.5	9.1	9.1	13.6	13.6	9.1	.0	63.6	36.4	100.0

TABLE 11

PERCENT FREQUENCY VSBY (NH) BY HOUR

HR	<1/2	1/2<1	1<2	2<5	5<10	10+	TOTAL
(GMT)							OBS
00003	.0	7.3	.0	.0	80.0	12.7	55
06009	.0	4.9	1.2	2.5	84.0	7.4	81
12015	1.6	6.3	.0	1.6	82.8	7.8	64
18021	.0	4.7	1.2	.0	82.6	11.6	86
TOT	1	16	2	3	236	28	286
PCT	.3	5.6	.7	1.0	82.5	9.8	100.0

TABLE 12

CUMULATIVE PCT FREQ OF RANGES OF VSBY (NH) AND/OR  
CEILING HGT (FEET, NH >4/8) BY HOUR

HR	<150	<600	<1000	1000+	NH <3/8	TOTAL
(GMT)	<50YD	<1	<5	AND5+	AND 5+	OBS
00003	.0	.0	.0	66.7	33.3	3
06009	.0	16.7	33.3	16.7	50.0	6
12015	.0	.0	25.0	50.0	25.0	8
18021	.0	.0	.0	60.0	40.0	5
TOT	0	1	4	10	8	22
PCT	.0	4.5	18.2	45.5	36.4	100.0

TABLE 13

PERCENT FREQUENCY OF RELATIVE HUMIDITY BY TEMP

TEMP F	0-29	30-39	40-49	50-59	60-69	70-79	80-89	90-100	TOTAL	PCT
									OBS	FREQ
65/69	.0	.0	.0	.0	3.0	3.0	.0	.0	2	6.1
60/64	.0	.0	.0	.0	6.1	3.0	9.1	3.0	7	21.2
55/59	.0	.0	.0	.0	3.0	3.0	18.2	6.1	10	30.3
50/54	.0	.0	.0	.0	3.0	9.1	15.2	4.1	12	36.4
45/49	.0	.0	.0	.0	.0	3.0	3.0	.0	2	6.1
TOTAL	0	0	0	0	5	7	15	6	33	100.0
PCT	.0	.0	.0	.0	15.2	21.2	45.5	18.2		

TABLE 14

PERCENT FREQUENCY OF WIND DIRECTION BY TEMP

	N	NE	E	SE	S	SW	W	NW	VAR	CALM
65/69	.0	.0	6.1	.0	.0	.0	.0	.0	.0	.0
60/64	5.3	.0	.0	.0	3.0	.0	6.1	3.8	.0	3.0
55/59	.0	.0	12.1	.8	5.3	.8	7.6	3.8	.0	.0
50/54	.0	.0	.0	.8	7.6	9.1	8.3	10.6	.0	.0
45/49	.0	.0	.0	.0	.0	3.8	2.3	.0	.0	.0
5+3	.0	18.2	1.5	15.9	13.6	24.2	18.2	.0	3.0	

TABLE 15

MEANS, EXTREMES AND PERCENTILES OF TEMP (DEG F) BY HOUR

HR	MAX	99%	95%	50%	5%	1%	MIN	MEAN	TOTAL
(GMT)									OBS
00003	67	66	65	55	51	48	48	55.9	82
06009	65	64	62	55	49	49	49	55.3	91
12015	61	60	60	54	49	47	47	53.8	69
18021	67	65	60	54	49	45	45	53.9	91
TOT	67	65	62	55	49	47	45	54.7	333

TABLE 16

PERCENT FREQUENCY OF RELATIVE HUMIDITY BY HOUR

HR	0-29	30-39	40-49	50-59	60-69	70-79	80-89	90-100	MEAN	TOTAL
(GMT)										OBS
00003	.0	.0	20.0	40.0	20.0	20.0	80			5
06009	.0	.0	20.0	30.0	30.0	20.0	79			10
12015	.0	.0	11.1	11.1	55.6	22.2	85			9
18021	.0	.0	11.1	11.1	66.7	11.1	81			9
TOT	0	0	5	7	15	6	81			33

## DECEMBER

PERIOD: (PRIMARY) 1881-1969  
(OVER-ALL) 1857-1969AREA 0011 TASMANIA WEST  
43.25 143.8E

TABLE 17

PCT FREQ OF AIR TEMPERATURE (DEG F) AND THE OCCURRENCE OF FOG (WITHOUT PRECIPITATION)  
VS AIR-SEA TEMPERATURE DIFFERENCE (DEG F)

AIR-SEA TMP DIF	45 48	49 52	53 56	57 60	61 64	65 68	TOT	W FOG	W0 FOG
11/13	.0	.0	.0	.0	.0	.4	1	.0	.4
9/10	.0	.0	.0	.0	.0	.4	1	.0	.4
7/8	.0	.0	.0	.0	.8	.4	3	.0	1.2
6	.0	.0	.0	.0	.4	.0	1	.0	.4
5	.0	.0	.0	.0	.8	.0	7	.4	2.4
4	.0	.0	.8	2.9	.4	.0	10	.8	3.3
3	.0	.0	.8	4.1	.4	.0	13	.0	5.5
2	.0	.4	2.4	3.7	1.2	.0	19	.0	7.8
1	.0	.8	10.6	4.5	1.6	.0	43	1.6	15.9
0	.0	2.4	13.1	2.0	.0	.0	43	.4	17.1
-1	.0	8.6	6.5	.0	.0	.0	37	1.2	13.9
-2	.4	4.9	4.5	.0	.0	.0	24	.4	9.4
-3	.8	5.7	1.6	.0	.0	.0	20	.4	7.8
-4	.8	2.4	.0	.0	.0	.0	8	.0	3.3
-5	.8	2.9	.0	.0	.0	.0	9	.0	3.7
-6	.4	.8	.0	.0	.0	.0	3	.0	1.2
-7/-8	.0	1.2	.0	.0	.0	.0	3	.0	1.2
TOTAL	8	74	99	47	14	3	245	13	232
PCT	3.3	30.2	40.4	19.2	5.7	1.2	100.0	5.3	94.7

PERIOD: (OVER-ALL) 1963-1969

TABLE 18

PCT FREQ OF WIND SPEED (KTS) AND DIRECTION VERSUS SEA HEIGHTS (FT)

HGT	N						PCT	NE						PCT
	1-3	4-10	11-21	22-33	34-47	48+		1-3	4-10	11-21	22-33	34-47	48+	
<1	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
1-2	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
3-4	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
5-6	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
7	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
8-9	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
10-11	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
12	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
13-16	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
17-19	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
20-22	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
23-25	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
26-32	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
33-40	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
41-48	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
49-60	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
61-70	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
71-86	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
87+	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
TOT PCT	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0

HGT	E						PCT	SE						PCT
	1-3	4-10	11-21	22-33	34-47	48+		1-3	4-10	11-21	22-33	34-47	48+	
<1	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
1-2	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
3-4	.0	.0	.0	.0	.0	.0	.0	.0	.0	2.3	.0	.0	.0	2.3
5-6	.0	.0	.0	.0	.0	.0	.0	.0	.0	2.3	.0	.0	.0	2.3
7	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
8-9	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
10-11	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
12	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
13-16	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
17-19	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
20-22	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
23-25	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
26-32	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
33-40	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
41-48	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
49-60	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
61-70	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
71-86	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
87+	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
TOT PCT	.0	.0	.0	.0	.0	.0	.0	.0	.0	4.5	.0	.0	.0	4.5

PERIOD: (OVER-ALL) 1963-1969

DECEMBER

TABLE 18 (CONT)

AREA 0011 TASMANIA WEST  
43.2S 143.8E

PCT FREQ OF WIND SPEED (KTS) AND DIRECTION VERSUS SEA HEIGHTS (FT)

HGT	1-3	4-10	11-21	22-33	34-47	48+	PCT	1-3	4-10	11-21	22-33	34-47	48+	PCT	TOTAL PCT
<1	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
1-2	.0	.0	9.1	.0	.0	.0	9.1	.0	.0	.0	.0	.0	.0	.0	.0
3-4	.0	9.1	6.8	.0	.0	.0	15.9	.0	.0	.0	.0	.0	.0	.0	.0
5-6	.0	.0	6.8	.0	.0	.0	6.8	.0	2.3	9.1	.0	.0	.0	11.4	.0
7	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
8-9	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
10-11	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
12	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
13-16	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	2.3	.0	2.3	.0
17-19	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
20-22	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
23-25	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
26-32	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
33-40	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
41-48	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
49-60	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
61-70	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
71-86	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
87+	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
TOT PCT	.0	9.1	22.7	.0	.0	.0	31.8	.0	2.3	9.1	.0	2.3	.0	13.6	.0

HGT	1-3	4-10	11-21	22-33	34-47	48+	PCT	1-3	4-10	11-21	22-33	34-47	48+	PCT	TOTAL PCT
<1	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
1-2	.0	.0	.0	.0	.0	.0	.0	.0	.0	9.1	.0	.0	.0	9.1	.0
3-4	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	9.1	.0	.0	9.1	.0
5-6	.0	15.9	.0	.0	.0	.0	15.9	.0	.0	.0	.0	.0	.0	.0	.0
7	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
8-9	.0	.0	6.8	.0	.0	.0	6.8	.0	.0	2.3	.0	.0	.0	2.3	.0
10-11	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
12	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
13-16	.0	.0	.0	.0	6.8	.0	6.8	.0	.0	.0	.0	.0	.0	.0	.0
17-19	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
20-22	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
23-25	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
26-32	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
33-40	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
41-48	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
49-60	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
61-70	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
71-86	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
87+	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
TOT PCT	.0	15.9	6.8	.0	6.8	.0	29.5	.0	.0	11.4	9.1	.0	.0	20.5	100.0

WIND SPEED (KTS) VS SEA HEIGHT (FT)

HGT	0-3	4-10	11-21	22-33	34-47	48+	PCT	TOT OBS
<1	.0	.0	.0	.0	.0	.0	.0	.0
1-2	.0	.0	18.2	.0	.0	.0	18.2	.0
3-4	.0	9.1	9.1	9.1	.0	.0	27.3	.0
5-6	.0	18.2	18.2	.0	.0	.0	36.4	.0
7	.0	.0	.0	.0	.0	.0	.0	.0
8-9	.0	.0	9.1	.0	.0	.0	9.1	.0
10-11	.0	.0	.0	.0	.0	.0	.0	.0
12	.0	.0	.0	.0	.0	.0	.0	.0
13-16	.0	.0	.0	.0	9.1	.0	9.1	.0
17-19	.0	.0	.0	.0	.0	.0	.0	.0
20-22	.0	.0	.0	.0	.0	.0	.0	.0
23-25	.0	.0	.0	.0	.0	.0	.0	.0
26-32	.0	.0	.0	.0	.0	.0	.0	.0
33-40	.0	.0	.0	.0	.0	.0	.0	.0
41-48	.0	.0	.0	.0	.0	.0	.0	.0
49-60	.0	.0	.0	.0	.0	.0	.0	.0
61-70	.0	.0	.0	.0	.0	.0	.0	.0
71-86	.0	.0	.0	.0	.0	.0	.0	.0
87+	.0	.0	.0	.0	.0	.0	.0	.0
TOT PCT	.0	27.3	54.5	9.1	9.1	.0	100.0	11

PERIOD: (OVER-ALL) 1953-1969

TABLE 19

PERCENT FREQUENCY OF WAVE HEIGHT (FT) VS WAVE PERIOD (SECONDS)

PERIOD (SEC)	<1	1-2	3-4	5-6	7	8-9	10-11	12	13-16	17-19	20-22	23-25	26-32	33-40	41-48	49-60	61-70	71-86	87+	TOTAL	MEAN HGT
<5	.0	.0	20.0	6.7	6.7	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	5
6-7	.0	.0	.0	6.7	.0	6.7	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	7
8-9	.0	.0	.0	.0	6.7	6.7	6.7	.0	6.7	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	10
10-11	.0	.0	.0	13.3	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	5
12-13	.0	.0	.0	.0	6.7	.0	6.7	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	9
>13	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	0
INDET	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	0
TOTAL	.0	.0	3	4	3	2	2	.0	1	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	15
PCT	.0	.0	20.0	26.7	20.0	13.3	13.3	.0	6.7	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	100.0

PERIOD: (PRIMARY) 1874-1973  
(OVER-ALL) 1854-1973

# ANNUAL

AREA 0011 TASMANIA WEST  
43.45 144.1E

TABLE 1

## PERCENT FREQUENCY OF WEATHER OCCURRENCE BY WIND DIRECTION

PRECIPITATION TYPE										OTHER WEATHER PHENOMENA						
WIND DIR	RAIN	RAIN SHWR	DRZL	FRZG PCPN	SNOW	OTHER FRZN PCPN	HAIL	PCPN AT DB TIME	PCPN PAST HOUR	THDR LTNG	FOG WD PCPN	FOG WD PCPN PAST HR	SMOKE HAZE	SPRAY BLWG DUST	NO SIG WEA	
N	8.5	8.6	3.5	.0	.0	.0	.0	20.6	.3	.8	5.9	.0	.5	.0	72.6	
NE	5.8	3.8	1.1	.0	.0	.0	.0	10.7	1.3	.6	12.4	.0	2.8	.0	72.2	
E	6.2	5.7	1.2	.0	.0	.0	.0	13.1	.0	.0	4.6	.0	1.4	.0	81.0	
SE	7.4	11.0	1.9	.0	.0	.0	.0	20.3	.0	.4	2.1	.0	.0	.0	77.6	
S	5.5	17.2	3.6	.0	.0	.0	2.6	28.8	.7	.0	7.0	.0	.0	.0	53.5	
SW	4.6	22.9	2.8	.0	.0	.0	3.8	34.0	.8	.0	5.5	.0	.0	.0	59.6	
W	4.3	20.1	4.7	.0	.0	.0	3.2	32.2	2.2	1.0	3.7	.0	.1	.0	51.2	
NW	5.9	14.7	4.7	.0	.0	.0	.4	25.7	1.4	1.5	4.5	.0	.9	.0	56.5	
VAR	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
CALM	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	16.7	
TOT PCT	5.2	15.0	3.4	.0	.0	.0	1.7	25.4	1.0	.7	5.3	.0	.6	.0	67.2	
TOT OBS:	2832															

TABLE 2

## PERCENT FREQUENCY OF WEATHER OCCURRENCE BY HOUR

HOUR (GMT)	PRECIPITATION TYPE							OTHER WEATHER PHENOMENA							
	RAIN	RAIN SHWR	DRZL	FRZG PCPN	SNOW	OTHER RAIN PCPN	HAIL	PCPN AT DB TIME	PCPN PAST HOUR	THDR LTNG	FOG WD PCPN	FOG WD PCPN PAST HR	SMOKE HAZE	SPRAY BLWG DUST BLWG SNOW	NO SIG WEA
00603	4.8	13.6	1.7	.0	.0	.0	.8	20.9	.5	.3	4.8	.0	1.0	.0	72.6
06009	5.6	15.7	3.7	.0	.0	.0	1.3	26.4	.8	.6	6.0	.0	.7	.0	55.9
12015	6.3	13.5	3.6	.0	.0	.0	1.9	25.3	1.3	1.2	4.2	.0	.4	.0	58.2
18021	4.4	15.5	3.9	.0	.0	.0	2.5	26.3	1.3	.7	5.8	.0	.4	.0	55.8
TOT PCT TOT OBS:	5.2 2975	14.7	3.3	.0	.0	.0	1.7	25.0	1.0	.7	5.3	.0	.6	.0	67.8

TABLE 3

## PERCENTAGE FREQUENCY OF WIND DIRECTION BY SPEED AND BY HOUR

WIND DIR	WIND SPEED (KNOTS)							TOTAL OBS	PCT FREQ	MEAN SPD	HOUR (GMT)							
	0-3	4-10	11-21	22-33	34-47	48+					00	03	06	09	12	15	18	21
N	.8	3.6	6.6	2.9	.5	.1		14.6	16.0		11.9	15.6	13.8	14.5	9.9	15.6	13.7	17.1
NE	.5	2.4	3.2	1.3	.1	.0		7.5	13.7		9.5	8.3	7.5	6.7	10.3	8.0	7.1	8.8
E	.9	2.1	2.1	.5	.1	.0		5.6	11.6		3.6	6.0	5.9	5.3	5.0	5.0	6.1	5.1
SE	.4	2.6	2.4	.5	.2	.1		6.1	13.1		5.0	5.3	6.8	8.1	2.9	8.2	5.4	5.7
S	.5	2.2	3.5	1.7	.9	.2		9.1	17.5		6.0	9.5	8.8	9.6	10.7	8.8	8.9	11.1
SW	.8	3.3	6.3	2.9	.9	.2		14.3	17.4		20.2	15.2	14.8	13.7	17.5	12.1	12.9	15.1
W	.6	4.2	9.0	4.3	1.9	.6		20.6	19.3		25.1	17.6	20.5	18.9	24.5	20.9	22.2	19.1
NW	.6	4.5	9.4	5.4	1.4	.4		21.7	18.3		18.6	22.0	21.6	22.2	19.2	21.2	22.6	20.9
VAR	.0	.0	.0	.0	.0	.0		.0	.0		.0	.0	.0	.0	.0	.0	.0	.0
CALM	.5							.5	.0		.0	.5	.5	1.0	.0	.2	1.0	.2
TOT OBS							3513		16.9		195	776	574	407	195	451	540	375
TOT PCT	5.6	24.8	42.5	19.6	5.9	1.5		100.0			100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0

TABLE 3A

WIND DIR	WIND SPEED (KNOTS)					TOTAL OBS	PCT FREQ	MEAN SPD	HOUR (GMT)			
	0-6	7-16	17-27	28-40	41+				00	06	12	18
N	1.8	5.9	5.1	1.5	.2		14.6	16.0	15.0	14.0	14.0	15.1
NE	1.4	3.3	2.4	.5	.0		7.5	13.7	8.5	7.2	8.6	6.5
E	1.8	2.5	1.1	.2	.0		5.6	11.6	5.5	5.7	5.1	5.8
SE	1.5	2.9	1.3	.4	.1		6.1	13.1	5.3	7.3	6.7	5.5
S	1.3	3.2	2.7	1.4	.5		9.1	17.5	8.7	9.1	9.2	9.7
SW	2.0	4.4	5.6	1.9	.5		14.3	17.4	15.8	14.3	13.4	13.8
W	2.0	7.1	8.9	3.1	1.4		20.6	19.3	19.4	19.9	22.1	21.0
NW	2.1	8.0	7.5	3.4	.8		21.7	18.3	21.3	21.9	20.8	22.0
VAR	.0	.0	.0	.0	.0		.0	.0	.0	.0	.0	.0
CALM	.5						.5	.0	.4	.7	.1	.7
TOT OBS						3513		16.9	971	981	646	915
TOT PCT	14.4	37.2	32.6	12.4	3.5		100.0		100.0	100.0	100.0	100.0

PERIOD: (PRIMARY) 1874-1973  
(OVER-ALL) 1854-1973

ANNUAL

AREA 0011 TASMANIA WEST  
43.45 144.1E

TABLE 4

PERCENTAGE FREQUENCY OF WIND SPEED BY HOUR (GMT)

HOUR	CALM	1-3	4-10	WIND SPEED (KNOTS)			48+	MEAN	PCT FREQ	TOTAL OBS
				11-21	22-33	34-47				
00003	.4	4.0	24.6	41.8	20.9	6.5	1.8	17.6	100.0	971
06009	.7	5.5	25.6	40.1	20.2	6.3	1.6	17.0	100.0	981
12015	.1	4.7	24.8	45.4	17.9	5.9	1.2	16.7	100.0	646
18021	.7	6.3	24.5	43.7	18.8	4.8	1.3	16.1	100.0	915
TOT								16.9		3513
PCT	.5	5.1	24.8	42.5	19.6	5.9	1.5	100.0		

TABLE 5

PCT FREQ OF TOTAL CLOUD AMOUNT (EIGHTHS)  
BY WIND DIRECTION

WIND DIR	0-2	3-4	5-7	8 & 8 OBS	TOTAL OBS	MEAN CLOUD COVER
N	2.0	.9	2.4	4.3		4.6
NE	.6	.4	1.1	2.8		4.4
E	1.7	.4	2.1	.2		2.1
SE	1.0	.2	2.1	.7		3.4
S	1.1	1.5	2.3	1.3		3.6
SW	1.3	3.5	11.8	2.5		5.2
W	1.6	6.6	12.3	6.9		5.5
NW	5.0	3.7	9.6	5.8		5.1
VAR	.0	.0	.0	.0		.0
CALM	.6	.0	.0	.0		.0
TOT OBS					407	5.4
TOT PCT	14.8	17.2	43.7	24.4	100.0	

TABLE 6

PERCENTAGE FREQUENCY OF CEILING HEIGHTS (FT, NH >4/8)  
AND OCCURRENCE OF NH <5/8 BY WIND DIRECTION

	000 149	150 299	300 599	600 999	1000 1999	2000 3499	3500 4999	5000 6499	6500 7999	8000+	NH <5/8 ANY HGT	TOTAL OBS
N	.0	.0	.4	1.1	2.1	.2	.6	.1	.4	.4	4.2	
NE	.0	.0	.9	1.2	1.1	.0	.0	.0	.0	.3	1.3	
E	.0	.0	.0	.1	.0	.0	.1	.8	.8	.2	2.5	
SE	.0	.0	.6	.1	1.7	.4	.0	.0	.0	.0	1.2	
S	.0	.0	.8	1.3	3.8	.6	.5	.0	.0	.0	5.7	
SW	.0	.0	5	1.8	3.8	6.6	.3	.4	.0	.0	10.1	
W	.0	.0	3	4.5	5.1	8.7	2.3	.2	.0	.1	12.6	
NW	.0	.0	3	2.9	3.1	3.1	.9	.6	.2	.3	12.6	
VAR	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
CALM	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.6	
TOT OBS											407	
TOT PCT	.0	.0	1.5	12.6	16.7	17.7	5.2	2.1	1.3	1.3	41.6	100.0

TABLE 7

CUMULATIVE PCT FREQ OF SIMULTANEOUS OCCURRENCE  
OF CEILING HEIGHT (NH >4/8) AND VSBY (NM)

CEILING (FEET)	VSBY (NM)							
	* OR >10	* OR >5	* OR >2	* OR >1	* OR >1/2	* OR >1/4	* OR >50YD	* OR >0
* OR >500	.8	2.2	2.6	2.6	2.6	2.6	2.6	2.6
* OR >1000	1.7	4.4	4.8	4.8	4.8	4.8	4.8	4.8
* OR >3500	6.3	9.2	10.1	10.1	10.1	10.1	10.1	10.1
* OR >2000	21.4	26.3	27.2	27.2	27.2	27.2	27.2	27.2
* OR >1000	35.2	43.2	45.0	45.3	45.3	45.3	45.3	45.3
* OR >600	41.8	54.7	57.1	57.4	57.4	57.4	57.4	57.4
* OR >300	42.6	55.7	58.5	58.9	58.9	58.9	58.9	58.9
* OR >150	42.6	55.7	58.5	58.9	58.9	58.9	58.9	58.9
* OR >0	42.6	55.7	58.5	58.9	58.9	58.9	58.9	58.9

TOTAL NUMBER OF OBS: 420

PCT FREQ NH <5/8: 41.1

TABLE 7A

PERCENTAGE FREQ OF LOW CLOUDS (EIGHTHS)

	0	1	2	3	4	5	6	7	8	OBS	TOTAL OBS
	8.8	8.1	7.9	9.4	5.6	14.1	12.7	13.0	20.5	.0	467



PERIOD: (PRIMARY) 1874-1973  
(OVER-ALL) 1854-1973

ANNUAL

AREA 0011 TASMANIA WEST  
43.4S 144.1E

TABLE 8

PERCENT FREQ OF WIND DIRECTION VS OCCURRENCE OR NON-OCCURRENCE OF  
PRECIPITATION WITH VARYING VALUES OF VISIBILITY

VSBY (NM)		N	NE	E	SE	S	SW	W	NW	VAR	CALM	PCT	TOTAL OBS
<1/2	PCP	.0	.0	.0	*	.0	.0	*	.1	.0	.0	.1	
	NO PCP	.1	.1	.0	*	.1	*	*	.1	.0	.0	.4	
	TOT %	.1	.1	.0	*	.1	*	.1	.2	.0	.0	.5	
1/2<1	PCP	.4	*	*	*	.2	.3	.6	.8	.0	.0	2.4	
	NO PCP	.9	.8	.2	.2	.5	.6	.8	1.0	.0	.0	5.2	
	TOT %	1.3	.8	.3	.2	.7	.9	1.4	1.8	.0	.0	7.5	
1<2	PCP	.1	.0	.0	.0	.0	*	.1	*	.0	.0	.2	
	NO PCP	.1	.2	.1	.0	.0	*	*	.2	.0	.0	.6	
	TOT %	.1	.2	.1	.0	.0	*	.1	.2	.0	.0	.8	
2<5	PCP	*	.0	.0	.0	.1	*	.1	.1	.0	.0	.3	
	NO PCP	.1	.0	*	.0	.0	*	.2	.1	.0	.0	.4	
	TOT %	.1	.0	*	.0	.1	.1	.3	.2	.0	.0	.7	
5<10	PCP	2.0	.7	.4	1.0	2.5	4.4	6.0	4.2	.0	.0	21.3	
	NO PCP	9.0	4.6	3.5	4.2	4.5	6.6	10.4	11.8	.0	.1	54.8	
	TOT %	11.1	5.3	3.9	5.2	7.0	11.0	16.4	16.0	.0	.1	76.1	
10+	PCP	.1	*	*	.1	.1	.2	.2	.4	.0	.0	1.1	
	NO PCP	1.9	.8	.7	.7	1.2	2.1	3.1	2.7	.0	.1	13.2	
	TOT %	2.0	.9	.7	.8	1.3	2.3	3.3	3.1	.0	.1	14.4	
TOT OBS													
TOT PCT													
		14.7	7.2	5.0	6.3	9.1	14.4	21.6	21.6	.0	.1	100.0	2832

TABLE 9

PERCENT FREQ OF WIND DIRECTION VS WIND SPEED  
WITH VARYING VALUES OF VISIBILITY

VSBY (NM)	SPD KTS	N	NE	E	SE	S	SW	W	NW	VAR	CALM	PCT	TOTAL OBS
<1/2	0-3	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
	4-10	*	*	.0	.0	*	*	*	.1	.0	.0	.2	
	11-21	*	.0	.0	*	*	*	*	*	.0	.0	.2	
	22+	.0	.0	.0	.0	.0	.0	*	.1	.0	.0	.1	
	TOT %	.1	.1	.0	*	.1	*	.1	.2	.0	.0	.5	
1/2<1	0-3	.1	*	*	.0	.1	*	*	.1	.0	.0	.4	
	4-10	.4	.3	*	.1	.1	.2	.3	.1	.0	.0	1.5	
	11-21	.6	.2	.2	.2	.3	.6	.9	1.0	.0	.0	4.0	
	22+	.2	.3	.1	.0	.2	.1	.2	.7	.0	.0	1.7	
	TOT %	1.3	.8	.3	.2	.7	.9	1.4	1.8	.0	.0	7.5	
1<2	0-3	.0	.0	.0	.0	.0	.0	.0	*	.0	.0	*	
	4-10	*	*	.1	.0	.0	.0	.0	.1	.0	.0	.2	
	11-21	*	.1	.0	.0	.0	*	*	.1	.0	.0	.3	
	22+	.1	*	.0	.0	.0	*	.1	*	.0	.0	.3	
	TOT %	.1	.2	.1	.0	.0	*	.1	.2	.0	.0	.8	
2<5	0-3	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
	4-10	*	.0	.0	.0	.0	.0	.0	.0	.0	.0	*	
	11-21	.0	.0	*	.0	.1	*	.2	.1	.0	.0	.4	
	22+	.1	.0	.0	.0	.0	*	.1	.1	.0	.0	.3	
	TOT %	.1	.0	*	.0	.1	.1	.3	.2	.0	.0	.7	
5<10	0-3	.7	.4	.9	.4	.4	.6	.6	.5	.0	.1	4.7	
	4-10	2.6	1.6	1.1	2.2	1.6	2.7	3.2	3.3	.0	.0	18.2	
	11-21	5.2	2.2	1.6	2.0	2.7	5.0	7.2	7.2	.0	.0	33.1	
	22+	2.6	1.0	.3	.7	2.2	2.7	5.4	5.0	.0	.0	19.9	
	TOT %	11.1	5.2	3.9	5.2	7.0	11.0	16.4	16.0	.0	.1	75.8	
10+	0-3	.1	*	.1	*	.1	.1	*	.1	.0	.1	.6	
	4-10	.6	.3	.4	.6	.6	.6	.9	1.0	.0	.0	5.0	
	11-21	.9	.4	.2	.1	.5	1.0	1.4	1.5	.0	.0	5.8	
	22+	.4	.1	.0	*	.2	.8	1.1	.6	.0	.0	3.1	
	TOT %	2.0	.9	.7	.8	1.3	2.5	3.3	3.1	.0	.1	14.6	
TOT OBS													
TOT PCT													
		14.7	7.2	4.9	6.3	9.1	14.6	21.6	21.5	.0	.1	100.0	2839

PERIOD: (PRIMARY) 1874-1973  
(OVER-ALL) 1854-1973

ANNUAL

AREA 0011 TASMANIA WEST  
43.45 144.1E

TABLE 10

PERCENT FREQUENCY OF CEILING HEIGHTS (FEET, NH >4/8) AND  
OCCURRENCE OF NH <3/8 BY HOUR

HOUR (GMT)	000 149	150 299	300 599	600 999	1000 1999	2000 3499	3500 4999	5000 6499	6500 7999	8000+	TOTAL	NH <5/8 ANY HGT	TOTAL OBS
00003	.0	.0	.4	10.1	21.6	14.5	2.9	3.8	2.8	2.1	58.3	41.7	105
06009	.0	.0	3.0	6.9	15.0	13.2	8.9	.0	2.3	1.0	50.3	49.7	122
12015	.0	.0	.6	14.6	16.5	19.2	3.1	1.6	.9	.9	57.4	42.6	110
18021	.0	.0	1.3	10.4	12.5	12.5	3.7	4.0	.5	.5	45.3	44.4	99
TOT													436
PCT	.0	.0	1.4	11.6	17.4	16.6	5.2	2.2	1.3	1.1	56.9	43.1	100.0

TABLE 11

PERCENT FREQUENCY VSBY (NM) BY HOUR

HOUR (GMT)	<1/2	1/2<1	1<2	2<5	5<10	10+	TOTAL OBS
00003	.4	7.6	1.2	.1	70.6	20.2	612
06009	.3	8.6	1.0	1.5	76.8	11.9	895
12015	.7	5.6	.6	.7	76.3	16.2	606
18021	.7	7.7	.4	.3	78.2	12.7	870
TOT							2983
PCT	.5	7.5	.8	.7	75.9	14.6	100.0

TABLE 12

CUMULATIVE PCT FREQ OF RANGES OF VSBY (NM) AND/OR  
CEILING HGT (FEET, NH >4/8), BY HOUR

HOUR (GMT)	<150 <50YD	<600 <1	<1000 <5	1000+ AND5+	NH <5/8 AND 5+	TOTAL OBS
00003	.0	.4	12.3	48.0	39.7	101
06009	.0	3.2	16.1	38.7	45.2	115
12015	.0	.6	18.0	41.1	40.9	109
18021	.0	1.3	12.7	34.6	44.3	95
TOT						420
PCT	.0	1.5	16.5	43.2	40.2	100.0

TABLE 13

PERCENT FREQUENCY OF RELATIVE HUMIDITY BY TEMP

TEMP F	0-29	30-39	40-49	50-59	60-69	70-79	80-89	90-100	TOTAL OBS	PCT FREQ
65/69	.0	.0	.0	.0	.5	.4	.3	.0	1.2	
60/64	.0	.0	.0	.0	.8	1.6	3.6	1.9	7.9	
55/59	.0	.0	.0	.5	3.3	6.5	12.4	10.2	32.9	
50/54	.0	.0	.0	.3	2.6	14.9	13.2	11.8	42.8	
45/49	.0	.0	.0	.8	2.4	4.5	4.0	3.2	14.9	
40/44	.0	.0	.0	.0	.0	.0	.3	.0	.3	
TOTAL									462	100.0
PCT	.0	.0	.0	1.7	9.6	27.9	33.8	27.0		

TABLE 14

PERCENT FREQUENCY OF WIND DIRECTION BY TEMP

	N	NE	E	SE	S	SW	W	NW	VAR	C&M
65/69	.2	.1	.7	.0	.0	.0	.0	.3	.0	.0
60/64	2.0	1.3	.4	.3	.5	.2	1.2	1.6	.0	.3
55/59	5.0	1.1	3.1	2.0	2.2	1.9	9.1	8.4	.0	.0
50/54	4.9	1.9	.4	1.6	4.2	5.9	12.4	11.2	.0	.2
45/49	.0	.4	.0	.5	1.9	7.0	4.8	.1	.0	.0
40/44	.0	.0	.0	.0	.3	.0	.0	.0	.0	.0
TOTAL	12.1	4.8	4.6	4.5	9.2	15.0	27.7	21.6	.0	.4

TABLE 15

MEANS, EXTREMES AND PERCENTILES OF TEMP (DEG F) BY HOUR

HOUR (GMT)	MAX	99%	95%	50%	5%	1%	MIN	MEAN	TOTAL OBS
00003	76	63	59	54	49	46	37	54.6	960
06009	75	62	60	53	48	46	40	54.6	1007
12015	69	59	58	53	47	45	43	53.3	668
18021	69	59	57	52	47	45	38	53.0	959
TOT	76	62	59	53	48	45	37	53.9	3594

TABLE 16

PERCENT FREQUENCY OF RELATIVE HUMIDITY BY HOUR

HOUR (GMT)	0-29	30-39	60-69	70-79	80-89	90-100	MEAN	TOTAL OBS
00003	.0	3.5	8.7	27.3	36.6	23.9	82	122
06009	.0	.6	13.8	35.4	32.1	18.1	81	133
12015	.0	1.3	8.8	26.9	30.4	24.3	82	112
18021	.0	.0	6.7	25.6	33.1	34.6	83	113
TOT	0	10	52	125	175	118	82	480

PERIOD: (PRIMARY) 1874-1973  
(OVER-ALL) 1854-1973

ANNUAL

TABLE 17

AREA 0011 TASMANIA WEST  
43.45 144.1E

PCT FREQ OF AIR TEMPERATURE (DEG F) AND THE OCCURRENCE OF FOG (WITHOUT PRECIPITATION)  
VS AIR-SEA TEMPERATURE DIFFERENCE (DEG F)

AIR-SEA TMP DIF	37 40	41 44	45 48	49 52	53 56	57 60	61 64	65 68	69 72	73 76	TOT	N FOG	W FOG
11/13	.0	.0	.0	.0	.0	*	.0	.1	.1	.0	8	.0	.2
9/10	.0	.0	.0	.0	.0	*	.1	.1	*	.1	12	.1	.3
7/8	.0	.0	.0	.0	*	*	.1	.2	*	*	15	*	.4
6	.0	.0	.0	.0	.1	.2	.2	.3	.1	.0	28	.2	.7
5	.0	.0	.0	.0	.2	.6	.6	.2	*	.0	48	.1	1.4
4	.0	.0	.0	*	.5	1.0	.9	.2	.0	.0	84	.4	2.3
3	.0	.0	.0	*	.4	1.5	1.8	.7	.2	.0	137	.3	4.3
2	.0	.0	.0	1.1	3.4	2.4	1.0	.1	*	.0	225	.7	7.4
1	.0	.0	.2	3.1	5.6	2.5	.7	.1	.0	.0	330	.8	11.4
0	.0	.0	.5	6.4	7.3	2.2	.3	*	.0	.0	442	.9	16.0
-1	.0	.0	1.1	6.9	4.5	1.3	.3	.0	.0	.0	376	.7	13.5
-2	.0	.0	1.5	6.2	3.1	.8	.0	.0	.0	.0	311	.6	11.1
-3	.0	.1	2.1	4.9	1.8	.2	*	.0	.0	.0	243	.3	8.8
-4	.0	.1	3.2	1.9	1.3	.1	*	.0	.0	.0	175	.3	6.5
-5	.0	.3	2.3	1.9	.3	.2	*	.0	.0	.0	125	.2	4.7
-6	.0	.3	1.4	.7	.4	.2	*	.0	.0	.0	80	.0	3.0
-7/-8	.1	.6	.5	.5	.1	.1	.0	.0	.0	.0	47	.0	1.9
-9/-10	.1	.2	.2	.0	.1	.0	.0	.0	.0	.0	14	.0	.6
-11/-13	.0	.0	*	.0	.0	.0	.0	.0	.0	.0	1	.0	*
-14/-16	.0	.0	*	.0	.0	.0	.0	.0	.0	.0	1	.0	*
TOTAL											2702		
PCT	.2	1.6	13.1	34.3	30.2	13.6	5.1	1.5	.3	.2	100.0	5.5	94.5

PERIOD: (OVER-ALL) 1963-1973

TABLE 18

PCT FREQ OF WIND SPEED (KTS) AND DIRECTION VERSUS SEA HEIGHTS (FT)

HGT	1-3	4-10	11-21	22-33	34-47	48+	PCT	1-3	4-10	11-21	22-33	34-47	48+	PCT
<1	.0	.0	.0	.0	.0	.0	.0	.0	.3	.0	.0	.0	.0	.3
1-2	.0	1.4	.0	.0	.0	.0	1.4	.0	.2	.9	.0	.0	.0	1.1
3-4	.0	.7	.8	.9	.0	.0	2.5	.0	1.2	.9	.0	.0	.0	2.1
5-6	.0	.4	1.0	.1	.0	.0	1.6	.0	.2	.0	*	.0	.0	.3
7	.0	.0	.5	.0	.0	.0	.5	.0	.0	.1	.1	.0	.0	.3
8-9	.0	.0	.2	.5	.0	.0	.7	.0	.0	.0	.0	.0	.0	.0
10-11	.0	.0	.2	.4	.2	.0	.8	.0	.0	.0	.0	.0	.0	.0
12	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
13-16	.0	.0	.0	.4	.3	.0	.7	.0	.0	.0	.9	.0	.0	.9
17-19	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
20-22	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
23-25	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
26-32	.0	.0	.0	.0	.0	.1	.1	.0	.0	.0	.0	.0	.0	.0
33-40	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
41-48	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
49-60	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
61-70	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
71-86	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
87+	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
TOT PCT	.0	2.6	2.8	2.4	.5	.1	8.3	.0	1.9	1.9	1.1	.0	.0	4.9

HGT	1-3	4-10	11-21	22-33	34-47	48+	PCT	1-3	4-10	11-21	22-33	34-47	48+	PCT
<1	.2	1.0	.0	.0	.0	.0	1.2	.1	.7	.0	.0	.0	.0	.7
1-2	.0	.6	1.3	.0	.0	.0	1.9	.3	.0	.0	.0	.0	.0	.3
3-4	.0	.4	.2	.0	.0	.0	.6	.0	.8	.7	.0	.0	.0	1.4
5-6	.0	.0	.1	.0	.0	.0	.1	.0	2.3	.7	.0	.0	.0	2.9
7	.0	.0	.0	.0	.0	.0	.0	.0	.0	.2	.2	.0	.0	.5
8-9	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
10-11	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
12	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
13-16	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
17-19	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
20-22	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
23-25	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
26-32	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
33-40	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
41-48	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
49-60	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
61-70	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
71-86	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
87+	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
TOT PCT	.2	2.0	1.7	.0	.0	.0	3.9	.4	3.7	1.5	.2	.0	.0	5.9

PERIOD: (OVER-ALL) 1963-1973

ANNUAL

AREA 0011 TASMANIA WEST  
43.45 144.1E

TABLE 18 (CONT)

PCT FREQ OF WIND SPEED (KTS) AND DIRECTION VERSUS SEA HEIGHTS (FT)

HGT	1-3	4-10	11-21	22-33	34-47	48+	PCT	1-3	4-10	11-21	22-33	34-47	48+	PCT
<1	.3	.8	.0	.0	.0	.0	1.0	.0	.0	.0	.0	.0	.0	.0
1-2	.0	.2	.8	.0	.0	.0	1.0	.0	1.7	.5	.0	.0	.0	2.2
3-4	.0	2.1	2.2	.0	.0	.0	4.3	.0	.3	1.2	.0	.0	.0	1.5
5-6	.0	.0	1.4	.0	.0	.0	1.4	.0	.3	1.6	1.8	.0	.0	3.8
7	.0	.0	1.1	.7	.0	.0	1.8	.0	.0	1.0	.5	.0	.0	1.4
8-9	.0	.0	.0	.2	.0	.0	.2	.0	.0	.0	.4	.0	.0	.4
10-11	.0	.0	.0	.2	.0	.0	.2	.0	.0	.3	.3	.0	.0	.6
12	.0	.0	.0	.1	.0	.0	.1	.0	.0	.0	.0	.0	.0	.0
13-16	.0	.0	.0	.0	.1	.0	.1	.0	.0	.4	1.0	.7	.0	2.1
17-19	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
20-22	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.2	.0	.0	.2
23-25	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	*	*
26-32	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
33-40	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
41-48	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
49-60	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
61-70	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
71-86	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
87+	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
TOT PCT	.3	3.1	5.6	1.2	.1	.0	10.2	.0	2.4	4.9	4.2	.7	*	12.2

HGT	1-3	4-10	11-21	22-33	34-47	48+	PCT	1-3	4-10	11-21	22-33	34-47	48+	PCT	TOTAL PCT
<1	.0	.1	.0	.0	.0	.0	.1	.0	.1	.0	.0	.0	.0	.1	
1-2	.0	1.7	.9	.0	.0	.0	2.6	.0	2.5	1.2	.0	.0	.0	3.7	
3-4	.0	.8	2.6	.0	.0	.0	3.4	.0	3.1	4.5	2.0	.0	.0	9.6	
5-6	.0	1.7	3.2	.3	.0	.0	5.3	.0	.4	3.5	.8	.0	.0	4.7	
7	.0	.1	.7	.9	.0	.0	1.8	.0	.0	2.7	.2	.0	.0	2.9	
8-9	.0	.0	3.5	.6	1.8	.0	6.0	.0	.0	.4	1.9	1.1	.0	3.4	
10-11	.0	.0	.1	1.8	1.7	.0	3.6	.0	.0	*	1.5	1.1	.0	2.7	
12	.0	.0	.1	.3	.0	.0	.4	.0	.0	.0	.0	.0	.0	.0	
13-16	.0	.0	.0	1.5	1.2	.4	3.0	.0	.0	.0	.2	.1	.0	.3	
17-19	.0	.0	.0	.1	.1	.0	.3	.0	.0	.0	.0	.0	.0	.0	
20-22	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
23-25	.0	.0	.0	.0	.0	.3	.3	.0	.0	.0	.0	.0	.0	.0	
26-32	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.1	*	.2	
33-40	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
41-48	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
49-60	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
61-70	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
71-86	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
87+	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
TOT PCT	.0	4.5	11.3	5.5	4.9	.7	26.8	.0	6.1	12.3	6.5	2.5	*	27.5	99.7

WIND SPEED (KTS) VS SEA HEIGHT (FT)

HGT	0-3	4-10	11-21	22-33	34-47	48+	PCT	TOT DBS
<1	.8	3.0	.0	.0	.0	.0	3.8	
1-2	1.1	8.4	5.6	.0	.0	.0	15.0	
3-4	.0	9.3	12.9	2.9	.0	.0	25.1	
5-6	.0	5.4	11.4	3.1	.0	.0	19.9	
7	.0	.1	6.3	2.5	.0	.0	9.0	
8-9	.0	.0	4.2	3.6	3.0	.0	10.7	
10-11	.0	.0	.6	4.2	3.0	.0	7.8	
12	.0	.0	.1	.4	.0	.0	.5	
13-16	.0	.0	.4	3.9	2.3	.4	7.0	
17-19	.0	.0	.0	.1	.1	.0	.3	
20-22	.0	.0	.0	.2	.0	.0	.2	
23-25	.0	.0	.0	.0	.0	.4	.4	
26-32	.0	.0	.0	.0	.1	.1	.3	
33-40	.0	.0	.0	.0	.0	.0	.0	
41-48	.0	.0	.0	.0	.0	.0	.0	
49-60	.0	.0	.0	.0	.0	.0	.0	
61-70	.0	.0	.0	.0	.0	.0	.0	
71-86	.0	.0	.0	.0	.0	.0	.0	
87+	.0	.0	.0	.0	.0	.0	.0	
TOT PCT	1.9	26.2	41.5	21.0	8.6	.9	100.0	274

PERIOD: (OVER-ALL) 1950-1968

TABLE 19

PERCENT FREQUENCY OF WAVE HEIGHT (FT) VS WAVE PERIOD (SECONDS)

PERIOD (SEC)	<1	1-2	3-4	5-6	7	8-9	10-11	12	13-16	17-19	20-22	23-25	26-32	33-40	41-48	49-60	61-70	71-86	87+	TOTAL	MEAN HGT
<6	1.1	1.7	5.3	4.2	2.7	1.7	1.8	.0	.5	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	62	5
6-7	.0	1.4	.8	4.6	5.3	3.0	.9	1.2	1.0	.0	.0	.7	.0	.0	.0	.0	.0	.0	.0	66	7
8-9	.0	.0	.4	2.5	3.3	6.0	3.8	1.0	3.4	.9	1.1	1.1	.0	.0	.0	.0	.0	.0	.0	105	10
10-11	.0	.2	.1	4.5	3.6	2.5	.7	3.5	2.3	.9	.0	.0	.0	.0	.0	.0	.0	.0	.0	62	9
12-13	.0	.0	.3	.4	2.4	1.3	1.5	.3	.7	.2	.0	.0	.0	.1	.1	.0	.0	.0	.0	34	11
>13	.0	.0	.0	.0	.1	.3	.2	1.0	1.0	.3	.3	.0	.0	.0	.1	.0	.0	.0	.0	17	14
INDST	.2	.0	.3	.4	.2	1.1	.8	.0	2.1	4.7	.0	.0	.0	.0	.0	.0	.0	.0	.0	15	10
TOTAL																				362	9
PCT	1.3	3.2	7.2	16.7	17.6	16.0	9.5	7.0	11.0	6.9	1.4	1.8	.0	.1	.2	.0	.0	.0	.0	100.0	

PERIOD: (PRIMARY) 1874-1973  
(OVER-ALL) 1854-1973

TABLE 20

AREA 0011 TASMANIA WEST  
43.45 144.1E

PERCENT FREQUENCY OF OCCURRENCE OF SEA TEMP (DEG F) BY MONTH

SEA TMP DEG F	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC	ANN	PCT
96+	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	0	.0
95/96	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	0	.0
93/94	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	0	.0
91/92	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	0	.0
89/90	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	0	.0
87/88	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	0	.0
85/86	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	0	.0
83/84	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	0	.0
81/82	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	0	.0
79/80	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	0	.0
77/78	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	0	.0
75/76	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	0	.0
73/74	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	0	.0
71/72	.0	.4	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	1	.0
69/70	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	0	.0
67/68	.0	.8	.3	.0	.0	.0	.0	.0	.0	.0	.0	.0	3	.1
65/66	.0	1.2	2.5	.0	.0	.0	.0	.0	.0	.0	.0	.0	13	.4
63/64	1.5	8.2	1.3	.4	.0	.0	.0	.0	.0	.0	.0	.0	33	1.0
61/62	6.5	11.0	4.5	.4	.8	.0	.0	.0	.0	.0	.0	.0	73	2.2
59/60	16.6	21.2	12.9	9.2	.4	1.3	.0	.0	.0	.5	.8	3.8	223	6.8
57/58	24.9	28.2	33.1	23.7	8.3	2.6	.4	.0	.5	.5	3.2	16.7	486	14.9
55/56	36.8	18.0	28.3	34.0	29.2	10.6	3.6	2.1	1.5	4.9	10.4	34.5	689	21.1
53/54	12.8	8.2	13.1	25.2	32.1	39.2	21.1	13.7	12.3	22.7	34.0	27.3	706	21.6
51/52	.9	2.7	3.5	5.9	20.4	32.6	39.5	44.7	41.0	40.0	40.8	14.0	645	19.7
49/50	.0	.0	.5	.6	8.3	12.8	26.0	33.2	33.8	25.4	9.6	3.4	322	9.9
47/48	.0	.0	.0	.0	.4	.4	6.7	5.3	10.3	4.3	1.2	.0	58	1.8
45/46	.0	.0	.0	.4	.0	.4	1.8	1.1	.5	1.1	.0	.0	12	.4
43/44	.0	.0	.0	.0	.0	.0	.4	.0	.0	.5	.0	.0	2	.1
41/42	.0	.0	.0	.0	.0	.0	.4	.0	.0	.0	.0	.0	1	.0
39/40	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	0	.0
37/38	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	0	.0
35/36	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	0	.0
33/34	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	0	.0
31/32	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	0	.0
29/30	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	0	.0
27/28	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	0	.0
<27	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	0	.0
TOTAL	337	255	396	476	240	227	223	190	195	185	250	293	3267	100.0
MEAN	56.8	58.2	56.8	55.5	53.7	52.7	51.1	50.8	50.7	51.4	52.5	54.6	53.7	

TABLE 21

PRESSURE (MB)

AVERAGE BY HOUR (GMT)

MO	0000	0300	0600	0900	1200	1500	1800	2100	MEAN	TOTAL OBS
JAN	1012	1009	1013	1016	1014	1012	1009	1007	1011	60
FEB	1018	1010	1011	1012	1014	1013	1012	1015	1012	65
MAR	1016	1017	1012	1012	1017	1012	1013	1012	1015	155
APR	1014	1014	1011	1017	1013	1020	1012	995	1013	128
MAY	1013	1013	1013	1017	1017	1012	1014	1014	1014	79
JUN	1006	1015	999	1009	1004	1007	1019	1008	1008	66
JUL	1016	1005	1015	997	1021	1004	992	1010	1010	35
AUG	1017	1004	1013	1017	1007	1017	1007	1017	1007	31
SEP	1010	1012	1008	1006	1010	1006	1012	1006	1011	44
OCT	1020	1007	1021	1019	1018	1017	1009	1011	1011	27
NOV	1013	1010	995	1009	1009	1007	1007	1009	1009	19
DEC	1010	1009	1011	1007	1012	1012	1009	1007	1010	80
ANN	1014	1010	1010	1011	1013	1012	1010	1008	1012	789
OBS	109	228	132	30	118	25	114	33		

PERCENTILES

MO	MIN	1%	5%	25%	50%	75%	95%	99%	MAX
JAN	990	990	994	1006	1014	1017	1019	1020	1021
FEB	994	994	999	1007	1014	1017	1025	1028	1029
MAR	994	999	1002	1009	1015	1020	1026	1031	1034
APR	982	983	994	1006	1013	1020	1027	1030	1031
MAY	988	988	997	1005	1015	1023	1028	1032	1033
JUN	972	972	978	1001	1012	1019	1028	1028	1029
JUL	983	983	989	998	1014	1020	1032	1032	1033
AUG	975	975	984	998	1007	1017	1028	1029	1030
SEP	989	989	994	1004	1006	1018	1027	1030	1031
OCT	985	985	996	1005	1014	1019	1021	1021	1022
NOV	990	990	990	999	1013	1015	1027	1027	1028
DEC	988	988	992	1002	1012	1016	1021	1027	1028



PERIOD: (PRIMARY) 1890-1969  
(OVER-ALL) 1855-1969

JANUARY

AREA 0012 CAPE NELSON  
38.45 141.06

TABLE 1

PERCENT FREQUENCY OF WEATHER OCCURRENCE BY WIND DIRECTION

WIND DIR	PRECIPITATION TYPE							OTHER WEATHER PHENOMENA									
	RAIN	RAIN SHWR	ORZL	FRZG PCPN	SNOW	OTHER FRZN PCPN	HAIL	PCPN AT DB TIME	PCPN PAST HOUR	THDR LTNG	FOG WD PCPN	FOG WD PCPN PAST HR	SMOKE HAZE	SPRAY BLWG DUST	NO SIG WEA		
N	2.5	.0	.0	.0	.0	.0	.0	2.6	.0	5.3	.0	.0	2.6	.0	89.5		
NE	3.1	1.8	.0	.0	.0	.0	.0	4.8	.0	3.5	7.9	.0	.0	.0	83.8		
E	1.6	.0	.0	.0	.0	.0	.0	2.1	.0	.6	10.5	.0	1.6	.0	85.3		
SE	.6	.7	.5	.0	.0	.0	.0	1.9	.0	1.1	5.9	.0	2.0	.0	89.5		
S	1.1	2.4	1.2	.0	.0	.0	.0	4.6	.0	1.0	1.9	.0	.2	.0	92.3		
SW	2.3	5.7	4.0	.0	.0	.0	.0	11.9	1.5	.2	3.2	.4	.0	.0	82.9		
W	4.7	10.1	2.1	.0	.0	.0	.0	16.6	3.6	2.2	2.8	.0	.3	.0	75.3		
NW	2.2	7.2	.0	.0	.0	.0	.0	9.4	2.2	3.6	5.4	.0	4.9	.0	76.2		
VAR	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0		
CALM	20.0	.0	20.0	.0	.0	.0	.0	20.0	.0	.0	.0	.0	.0	.0	80.0		
TOT PCT	2.2	3.9	1.7	.0	.0	.0	.0	7.7	1.1	1.3	4.7	.1	1.0	.0	84.5		
TOT OBS:	1318																

TABLE 2

PERCENT FREQUENCY OF WEATHER OCCURRENCE BY HOUR

HOUR (GMT)	PRECIPITATION TYPE							OTHER WEATHER PHENOMENA									
	RAIN	RAIN SHWR	ORZL	FRZG PCPN	SNOW	OTHER FRZN PCPN	HAIL	PCPN AT DB TIME	PCPN PAST HOUR	THDR LTNG	FOG WD PCPN	FOG WD PCPN PAST HR	SMOKE HAZE	SPRAY BLWG DUST	NO SIG WEA		
0000	1.7	3.2	2.0	.0	.0	.0	.0	6.7	.5	.5	6.0	.0	1.0	.0	85.4		
0600	2.2	3.8	1.9	.0	.0	.0	.0	8.0	2.2	.3	5.8	.3	1.6	.0	81.7		
1200	3.1	4.0	1.4	.0	.0	.0	.0	8.3	.3	3.1	3.1	.0	.3	.0	85.7		
1800	1.3	4.2	2.0	.0	.0	.0	.0	7.5	1.3	1.6	4.2	.0	1.0	.0	84.6		
TOT PCT	2.1	3.8	1.8	.0	.0	.0	.0	7.6	1.0	1.4	4.8	.1	.9	.0	84.5		
TOT OBS:	1371																

TABLE 3

PERCENTAGE FREQUENCY OF WIND DIRECTION BY SPEED AND BY HOUR

WIND DIR	WIND SPEED (KNOTS)							TOTAL OBS	PCT FREQ	MEAN SPD	HOUR (GMT)							
	0-3	4-10	11-21	22-33	34-47	48+					00	03	06	09	12	15	18	21
N	.4	1.2	.8	.2	.0	.0		2.6	10.3		3.5	3.8	1.5	.0	1.1	2.5	3.1	2.3
NE	.4	2.3	1.9	.2	.0	.0		4.8	10.8		6.3	5.0	1.4	2.7	2.7	6.0	7.5	6.8
E	.8	5.8	5.3	.8	.2	.0		12.9	11.6		13.2	13.2	10.8	11.6	14.9	12.7	12.3	17.5
SE	.7	8.3	9.4	.7	.2	.0		19.4	12.2		18.9	19.9	23.0	20.1	22.7	15.4	14.6	23.2
S	1.0	7.4	6.9	1.2	.1	.1		16.7	11.6		14.2	15.6	16.4	16.5	17.7	21.2	17.7	11.9
SW	.8	7.3	7.8	3.2	.4	.0		19.5	14.0		20.3	17.9	19.1	18.1	21.5	16.9	21.8	15.3
W	.7	4.8	7.9	4.0	.8	.0		18.2	16.3		17.2	17.6	21.8	29.0	15.5	19.5	16.3	15.9
NW	.2	2.1	1.7	.8	.4	.0		5.1	15.0		6.2	5.8	5.8	4.0	3.1	3.0	5.7	4.5
VAR	.0	.0	.0	.0	.0	.0		.0	.0		.0	.0	.0	.0	.0	.0	.0	.0
CALM	.9							.9	.0		.3	1.2	.3	.0	.5	2.8	1.2	2.3
TOT OBS	134	871	928	247	48	4	2232		13.0		386	417	391	56	320	217	401	44
TOT PCT	6.0	39.0	41.6	11.1	2.2	.2		100.0			100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0

TABLE 3A

WIND DIR	WIND SPEED (KNOTS)					41+ TOTAL OBS	PCT FREQ	MEAN SPD	HOUR (GMT)				
	0-6	7-16	17-27	28-40					00	06	12	18	21
N	.9	1.2	.5	.0	.0		2.6	10.3	3.7	1.3	1.7	3.0	
NE	1.3	2.6	.8	.1	.0		4.8	10.8	5.6	1.6	4.1	7.4	
E	3.2	7.1	2.3	.2	.0		12.9	11.6	13.2	10.9	14.0	12.9	
SE	3.6	10.9	4.4	.3	.1		19.4	12.2	19.4	22.6	19.8	15.4	
S	4.2	9.0	3.1	.2	.1		16.7	11.6	14.9	16.4	19.1	17.1	
SW	3.8	8.8	5.6	1.2	.2		19.5	14.0	19.1	18.7	19.6	21.0	
W	2.3	8.0	5.1	2.8	.1		18.2	16.3	17.4	22.7	17.2	16.3	
NW	.7	2.6	.9	.9	.0		5.1	15.0	5.9	5.5	3.1	5.6	
VAR	.0	.0	.0	.0	.0		.0	.0	.0	.0	.0	.0	
CALM	.9						.9	.0	.7	.2	1.5	1.3	
TOT OBS	464	1121	508	128	11	2232		13.0	803	447	537	445	
TOT PCT	20.8	50.2	22.8	5.7	.5		100.0		100.0	100.0	100.0	100.0	

PERIOD: (PRIMARY) 1890-1969  
(OVER-ALL) 1855-1969

JANUARY

AREA 0012 CAPE NELSON  
38.45 141.0E

TABLE 4

PERCENTAGE FREQUENCY OF WIND SPEED BY HOUR (GMT)

HOUR	CALM	1-3	4-10	WIND SPEED (KNOTS)			48+	MEAN	PCT FREQ	TOTAL OBS
				11-21	22-33	34-47				
00003	.7	4.6	39.5	41.3	11.1	2.6	.1	13.2	100.0	803
06009	.2	4.9	39.8	41.4	11.6	2.0	.0	13.0	100.0	447
12015	1.5	4.7	38.0	41.7	12.3	1.5	.4	13.2	100.0	537
18021	1.3	6.5	38.7	42.0	9.0	2.2	.2	12.5	100.0	445
TOT	21	113	871	928	247	48	4	13.0		2232
PCT	.9	5.1	39.0	41.6	11.1	2.2	.2	100.0		

TABLE 5

PCT FREQ OF TOTAL CLOUD AMOUNT (EIGHTHS)  
BY WIND DIRECTION

WIND DIR	0-2	3-4	5-7	8 & OBSCD	TOTAL OBS	MEAN CLOUD COVER
N	.6	.2	.6	.2		3.8
NE	1.3	.8	1.6	.6		4.4
E	6.3	1.7	3.3	1.2		3.1
SE	6.3	4.8	7.9	4.2		4.6
S	4.2	2.6	5.0	4.0		4.8
SW	4.1	5.6	8.2	4.6		4.9
W	3.2	2.9	5.2	3.7		5.0
NW	1.6	.6	1.1	1.4		4.8
VAR	.0	.0	.0	.0		.0
CALM	.4	.0	.2	.0		2.6
TOT OBS	158	109	187	113	567	4.5
TOT PCT	27.9	19.2	33.0	19.9	100.0	

TABLE 6

PERCENTAGE FREQUENCY OF CEILING HEIGHTS (FT, NH > 4/8)  
AND OCCURRENCE OF NH < 5/8 BY WIND DIRECTION

	000	150	300	600	1000	2000	3500	5000	6500	8000+	NH < 5/8 ANY HGT	TOTAL OBS
	149	299	599	999	1999	3499	4999	6499	7999			
N	.0	.0	.0	.0	.0	.0	.1	.1	.0	.3	1.1	
NE	.0	.0	.0	.0	.5	.2	.6	.1	.0	.0	2.8	
E	.0	.0	.0	.2	.7	.8	.2	.4	.3	.0	9.8	
SE	.0	.2	.7	3.1	3.5	1.1	.4	.2	.2	.2	13.7	
S	.0	.0	1.1	1.7	2.7	1.1	.7	.1	.3	.8	8.0	
SW	.0	.6	1.4	2.6	2.8	1.4	.4	.1	.4	.4	12.9	
W	.0	.0	.3	1.8	3.2	1.5	.8	.0	.0	.3	8.2	
NW	.0	.0	.4	1.0	.2	.0	.2	.2	.2	.2	2.6	
VAR	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
CALM	.0	.0	.0	.2	.0	.0	.0	.0	.0	.0	.4	
TOT OBS	0	1	6	26	74	67	30	12	5	9	337	567
TOT PCT	.0	.2	1.1	4.6	13.1	11.8	5.3	2.1	.9	1.6	59.4	100.0

TABLE 7

CUMULATIVE PCT FREQ OF SIMULTANEOUS OCCURRENCE  
OF CEILING HEIGHT (NH > 4/8) AND VSBY (NM)

CEILING (FEET)	VSBY (NM)				VSBY (NM)			
	= OR >10	= OR >5	= OR >2	= OR >1	= OR >1/2	= OR >1/4	= OR >50YD	= OR >0
= OR > 5000	2.3	2.4	2.4	2.4	2.4	2.4	2.4	2.4
= OR > 3000	4.3	4.7	4.7	4.7	4.7	4.7	4.7	4.7
= OR > 1500	9.5	9.9	9.9	9.9	9.9	9.9	9.9	9.9
= OR > 1000	19.8	20.8	21.5	21.5	21.5	21.5	21.5	21.5
= OR > 600	30.9	33.9	34.5	34.5	34.5	34.5	34.5	34.5
= OR > 300	34.5	37.7	39.1	39.1	39.1	39.1	39.1	39.1
= OR > 150	34.9	38.7	40.1	40.1	40.1	40.1	40.1	40.1
= OR > 0	34.9	38.7	40.3	40.3	40.3	40.3	40.3	40.3
TOTAL	201	223	232	232	232	232	232	232

TOTAL NUMBER OF OBS: 576

PCT FREQ NH < 5/8: 59.7

TABLE 7A

PERCENTAGE FREQ OF LOW CLOUDS (EIGHTHS)

0	1	2	3	4	5	6	7	8	OBSCD	TOTAL OBS
13.0	13.1	12.8	10.1	8.6	8.1	7.6	10.1	16.5	.0	654

## JANUARY

PERIOD: (PRIMARY) 1890-1969  
(OVER-ALL) 1855-1969

TABLE 8

AREA 0012 CAPE NELSON  
38.45 141.0EPERCENT FREQ OF WIND DIRECTION VS OCCURRENCE OR NON-OCCURRENCE OF  
PRECIPITATION WITH VARYING VALUES OF VISIBILITY

VSRY (NM)		N	NE	E	SE	S	SW	W	NW	VAR	CALM	PCT	TOTAL OBS
<1/2	PCP	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
	NO PCP	.0	*	*	.2	.0	.1	.1	.0	.0	.0	.0	.4
	TOT %	.0	*	*	.2	.0	.1	.1	.0	.0	.0	.0	.4
1/2<1	PCP	.0	.1	.1	*	.1	.0	.0	.1	.0	.0	.0	.4
	NO PCP	.0	.3	1.4	.9	.2	.3	.5	.2	.0	.0	.0	3.8
	TOT %	.0	.4	1.4	1.0	.3	.3	.5	.3	.0	.0	.0	4.2
1<2	PCP	.0	*	.1	.0	.0	.0	.2	.0	.0	.0	.0	.2
	NO PCP	*	.1	.2	.2	.0	.0	.1	*	.0	.0	.0	.6
	TOT %	*	.1	.2	.2	.0	.0	.2	*	.0	.0	.0	.8
2<5	PCP	.0	.0	.0	*	.1	.0	.0	.0	.0	.0	.0	.1
	NO PCP	.0	.1	*	.2	.1	*	.3	.1	.0	.0	.0	.8
	TOT %	.0	.1	*	.2	.1	*	.3	.1	.0	.0	.0	.8
5<10	PCP	.0	.0	.1	.3	.5	2.0	2.6	.3	.0	.0	.0	5.8
	NO PCP	.5	1.7	4.9	7.5	7.2	7.0	7.2	1.2	.0	.1	.1	37.3
	TOT %	.5	1.7	5.0	7.8	7.5	9.0	9.9	1.5	.0	.1	.1	43.1
10+	PCP	*	.1	.1	.0	.1	.5	.3	*	.0	.1	.1	1.2
	NO PCP	.8	2.0	6.6	11.9	7.7	10.5	7.4	2.4	.0	.2	.2	49.5
	TOT %	.9	2.1	6.7	11.9	7.9	11.0	7.7	2.4	.0	.3	.3	50.7
TOT OBS													
TOT PCT													
		1.4	4.3	13.4	21.3	15.9	20.4	18.7	4.2	.0	.4	100.0	1318

TABLE 9

PERCENT FREQ OF WIND DIRECTION VS WIND SPEED  
WITH VARYING VALUES OF VISIBILITY

VSRY (NM)	SPD KTS	N	NE	E	SE	S	SW	W	NW	VAR	CALM	PCT	TOTAL OBS
<1/2	0-3	.0	.0	.0	.1	.0	.0	.0	.0	.0	.0	.1	
	4-10	.0	*	*	.0	.0	.0	.0	.0	.0	.0	.1	
	11-21	.0	.0	.0	.1	.1	.0	.1	.0	.0	.0	.2	
	22+	.0	.0	.0	.0	.0	.1	.0	.0	.0	.0	.1	
	TOT %	.0	*	*	.1	.1	.1	.1	.0	.0	.0	.4	
1/2<1	0-3	.0	*	.2	.2	.1	.1	.0	.0	.0	.0	.6	
	4-10	.0	.1	.5	.4	*	.2	.1	.0	.0	.0	1.3	
	11-21	.0	.1	.6	.2	.1	*	.1	*	.0	.0	1.2	
	22+	.0	.1	.0	*	.1	.0	.2	.2	.0	.0	.6	
	TOT %	.0	.3	1.3	.9	.3	.3	.4	.2	.0	.0	3.7	
1<2	0-3	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
	4-10	*	.0	.0	.1	.0	.0	.0	*	.0	.0	.1	
	11-21	.0	.1	.1	.1	.0	.0	.1	.0	.0	.0	.3	
	22+	.0	.0	.1	.0	.0	.0	.1	.0	.0	.0	.3	
	TOT %	*	.1	.2	.2	.0	.0	.2	*	.0	.0	.7	
2<5	0-3	*	.0	.0	.0	.0	.0	.0	*	.0	.0	.1	
	4-10	.1	.1	.0	.0	.1	*	.1	.0	.0	.0	.3	
	11-21	.0	.1	.0	.1	.1	*	.2	.0	.0	.0	.4	
	22+	.0	.0	*	.1	.0	.0	.1	.1	.0	.0	.3	
	TOT %	.1	.1	*	.2	.1	.1	.3	.1	.0	.0	1.0	
5<10	0-3	.1	*	.3	.3	.6	.4	.3	.0	.0	.2	2.1	
	4-10	.2	.6	2.4	2.5	2.8	2.0	.4	.0	.0	.0	13.8	
	11-21	.1	.8	1.7	4.7	3.0	3.1	3.5	.5	.0	.0	17.3	
	22+	.2	.1	.4	.2	.5	2.1	3.3	.5	.0	.0	7.3	
	TOT %	.6	1.6	4.7	7.7	6.9	8.5	9.0	1.4	.0	.2	40.5	
10+	0-3	.2	.2	.2	.2	.4	.5	.3	.2	.0	.5	2.5	
	4-10	.5	1.1	2.7	5.4	4.1	5.2	2.2	1.2	.0	.0	22.4	
	11-21	.2	.7	3.5	6.1	3.7	4.5	4.3	.9	.0	.0	23.8	
	22+	.1	.1	.4	.3	.4	1.8	1.7	.2	.0	.0	4.9	
	TOT %	1.0	2.0	6.8	12.0	8.5	11.9	8.5	2.6	.0	.5	53.7	
TOT OBS													
TOT PCT													
		1.7	4.2	13.1	21.2	15.8	20.7	18.5	4.3	.0	.7	100.0	1498

## JANUARY

PERIOD: (PRIMARY) 1890-1969  
(OVER-ALL) 1855-1969

AREA 0012 CAPE NELSON  
38.45 141.0E

TABLE 10

PERCENT FREQUENCY OF CEILING HEIGHTS (FEET, NH > 4/8) AND  
OCCURRENCE OF NH < 5/8 BY HOUR

HOUR (GMT)	000 149	150 299	300 599	600 999	1000 1999	2000 3499	3500 4999	5000 6499	6500 7999	8000+	TOTAL DBS	NH < 5/8 ANY HGT	TOTAL DBS
00003	.0	.0	1.7	4.0	15.3	10.2	7.9	2.8	1.7	1.1	44.6	55.4	177
06009	.0	.7	1.3	3.9	14.5	7.2	3.3	1.3	.7	2.6	35.5	64.5	152
12015	.0	.0	.0	2.9	8.0	8.8	2.2	2.9	.0	.0	24.8	75.2	137
18021	.0	.0	.7	6.3	10.5	18.2	5.6	1.4	.7	2.1	45.5	54.5	143
TOT	0	1	6	26	75	67	30	13	5	9	232	377	609
PCT	.0	.2	1.0	4.3	12.3	11.0	4.9	2.1	.8	1.5	38.1	61.9	100.0

TABLE 11

PERCENT FREQUENCY VSRY (NM) BY HOUR

HOUR (GMT)	<1/2	1/2<1	1<2	2<5	5<10	10+	TOTAL DBS
00003	.9	4.1	.6	.9	42.2	51.4	469
06009	.0	4.2	.8	1.4	38.0	55.6	358
12015	.3	3.1	.8	1.0	45.6	49.2	388
18021	.3	4.2	.6	.6	38.1	56.3	336
TOT	6	60	11	15	639	820	1551
PCT	.4	3.9	.7	1.0	41.2	52.9	100.0

TABLE 12

CUMULATIVE PCT FREQ OF RANGES OF VSRY (NM) AND/OR  
CEILING HGT (FEET, NH > 4/8), BY HOUR

HOUR (GMT)	<150 <500	<600 <1	<1000 <5	1000+ AND 5+	NH < 5/8 AND 5+	TOTAL DBS
00003	.0	1.8	6.4	39.8	53.8	171
06009	.0	2.1	6.9	30.3	62.8	145
12015	.0	.0	4.0	23.0	73.0	126
18021	.0	.7	8.2	40.3	51.5	134
TOT	0	7	37	195	344	576
PCT	.0	1.2	6.4	33.9	59.7	100.0

TABLE 13

PERCENT FREQUENCY OF RELATIVE HUMIDITY BY TEMP

TEMP F	0-29	30-39	40-49	50-59	60-69	70-79	80-89	90-100	TOTAL DBS	PCT FREQ
75/79	.0	.0	.0	.1	.3	.4	.0	.0	6	.8
70/74	.0	.0	.1	.5	.4	.9	.3	.1	18	2.4
65/69	.0	.0	.0	.4	.8	4.1	4.7	3.0	99	13.0
60/64	.0	.0	.0	1.8	8.9	15.1	19.7	7.3	403	52.9
55/59	.0	.0	.0	.7	5.2	11.5	9.6	2.8	227	29.8
50/54	.0	.0	.0	.0	.1	.5	.4	.1	9	1.2
TOTAL	0	0	1	27	120	248	264	102	762	100.0
PCT	.0	.0	.1	3.5	15.7	32.5	34.6	13.4		

TABLE 14

PERCENT FREQUENCY OF WIND DIRECTION BY TEMP

	N	NE	E	SE	S	SW	W	NW	VAR	CALM
.5	.0	.0	.0	.1	.0	.0	.1	.1	.0	.0
.1	.4	1.0	.8	.1	.1	.0	.5	.0	.0	.0
.6	1.6	3.9	2.9	.6	.9	1.2	1.0	.0	.1	.1
.3	1.4	7.5	11.0	6.8	11.7	11.7	2.3	.0	.3	.3
.0	.7	1.8	6.9	7.1	9.7	3.3	.1	.0	.1	.1
.0	.0	.0	.0	.4	.5	.2	.1	.0	.0	.0
1.5	4.1	14.2	21.0	15.0	22.9	16.6	4.2	.0	.5	.5

TABLE 15

MEANS, EXTREMES AND PERCENTILES OF TEMP (DEG F) BY HOUR

HOUR (GMT)	MAX	99%	95%	50%	5%	1%	MIN	MEAN	TOTAL DBS
00003	81	74	70	61	57	54	52	62.1	796
06009	81	75	70	62	57	55	54	62.7	446
12015	82	71	67	60	54	54	51	60.4	554
18021	72	70	67	59	55	53	52	60.0	444
TOT	82	73	69	61	56	54	51	61.4	2240

TABLE 16

PERCENT FREQUENCY OF RELATIVE HUMIDITY BY HOUR

HOUR (GMT)	0-29	30-59	60-69	70-79	80-89	90-100	MEAN	TOTAL DBS
00003	.0	5.8	20.1	36.2	27.7	10.3	76	224
06009	.0	4.8	18.0	33.9	30.2	13.2	77	189
12015	.0	1.6	12.2	30.3	42.0	13.8	80	188
18021	.0	1.7	12.2	31.1	36.3	16.7	80	180
TOT	0	28	124	258	267	194	78	781

PERIOD: (PRIMARY) 1890-1949  
(OVER-ALL) 1855-1969

JANUARY

AREA 0012 CAPE NELSON  
38.45 141.0E

TABLE 17

PCT FREQ OF AIR TEMPERATURE (DEG F) AND THE OCCURRENCE OF FOG (WITHOUT PRECIPITATION)  
VS AIR-SEA TEMPERATURE DIFFERENCE (DEG F)

AIR-SEA TMP DIF	49 52	53 56	57 60	61 64	65 68	69 72	73 76	77 80	81 84	TOT	W FOG	WD FOG
14/16	.0	.0	.0	.0	.0	.0	.1	.2		3	.1	.2
11/13	.0	.0	.0	.0	.0	.0	.2	.0	.0	2	.1	.1
9/10	.0	.0	.0	.0	.0	.3	.3	.0	.0	7	.0	.6
7/8	.0	.0	.0	.2	.8	1.0	.1	.0	.0	24	.4	1.6
6	.0	.0	.0	.2	.4	.8	.0	.1	.0	17	.2	1.3
5	.0	.0	.2	.3	1.2	.6	.0	.0	.0	26	.2	2.0
4	.0	.0	.1	.9	1.9	.9	.0	.0	.0	43	.4	3.2
3	.0	.0	.2	1.8	2.0	.3	.0	.0	.0	49	.3	3.8
2	.0	.2	.3	4.0	1.9	.3	.1	.0	.0	80	.5	6.3
1	.0	.0	2.3	6.3	1.5	.2	.0	.0	.0	120	.3	9.9
0	.0	.0	5.2	8.3	.9	.1	.0	.0	.0	170	.6	13.9
-1	.0	.3	7.7	7.3	.1	.0	.0	.0	.0	180	.3	15.0
-2	.0	.9	8.4	3.9	.3	.0	.0	.0	.0	157	.3	13.1
-3	.0	.9	7.7	1.8	.0	.0	.0	.0	.0	122	.3	10.2
-4	.0	.9	6.1	.9	.1	.0	.0	.0	.0	95	.1	8.0
-5	.0	.9	1.9	.2	.0	.0	.0	.0	.0	34	.1	2.8
-6	.0	.4	1.4	.3	.0	.0	.0	.0	.0	25	.1	2.0
-7/-8	.2	.6	.3	.2	.0	.0	.0	.0	.0	14	.2	1.0
-9/-10	.0	.2	.0	.0	.0	.0	.0	.0	.0	2	.0	.2
-11/-13	.0	.2	.0	.0	.0	.0	.0	.0	.0	2	.0	.2
TOTAL	2	64	488	427	128	51	8	2	2	1172	52	1120
PCT	.2	5.5	41.6	36.4	10.9	4.4	.7	.2	.2	100.0	4.4	95.6

PERIOD: (OVER-ALL) 1963-1969

TABLE 18

PCT FREQ OF WIND SPEED (KTS) AND DIRECTION VERSUS SEA HEIGHTS (FT)

HGT	N							PCT	NE							PCT
	1-3	4-10	11-21	22-33	34-47	48+			1-3	4-10	11-21	22-33	34-47	48+		
<1	.0	.2	.0	.0	.0	.0	.2		.3	.3	.0	.0	.0	.0	.6	
1-2	.0	.3	.0	.0	.0	.0	.3		.3	.8	.3	.0	.0	.0	1.3	
3-4	.0	.3	.3	.0	.0	.0	.5		.0	.8	.7	.0	.0	.0	1.5	
5-6	.0	.0	.0	.0	.0	.0	.0		.0	.0	.3	.0	.0	.0	.3	
7	.0	.0	.0	.3	.0	.0	.3		.0	.0	.0	.0	.0	.0	.0	
8-9	.0	.0	.0	.0	.0	.0	.0		.0	.0	.0	.3	.0	.0	.3	
10-11	.0	.0	.0	.0	.0	.0	.0		.0	.0	.0	.0	.0	.0	.0	
12	.0	.0	.0	.0	.0	.0	.0		.0	.0	.0	.0	.0	.0	.0	
13-16	.0	.0	.0	.0	.0	.0	.0		.0	.0	.0	.0	.0	.0	.0	
17-19	.0	.0	.0	.0	.0	.0	.0		.0	.0	.0	.0	.0	.0	.0	
20-22	.0	.0	.0	.0	.0	.0	.0		.0	.0	.3	.0	.0	.0	.3	
23-25	.0	.0	.0	.0	.0	.0	.0		.0	.0	.0	.0	.0	.0	.0	
26-32	.0	.0	.0	.0	.0	.0	.0		.0	.0	.0	.0	.0	.0	.0	
33-40	.0	.0	.0	.0	.0	.0	.0		.0	.0	.0	.0	.0	.0	.0	
41-48	.0	.0	.0	.0	.0	.0	.0		.0	.0	.0	.0	.0	.0	.0	
49-60	.0	.0	.0	.0	.0	.0	.0		.0	.0	.0	.0	.0	.0	.0	
61-70	.0	.0	.0	.0	.0	.0	.0		.0	.0	.0	.0	.0	.0	.0	
71-86	.0	.0	.0	.0	.0	.0	.0		.0	.0	.0	.0	.0	.0	.0	
87+	.0	.0	.0	.0	.0	.0	.0		.0	.0	.0	.0	.0	.0	.0	
TOT PCT	.0	.7	.3	.3	.0	.0	1.3		.5	1.9	1.5	.3	.0	.0	4.2	

HGT	E							PCT	SE							PCT
	1-3	4-10	11-21	22-33	34-47	48+			1-3	4-10	11-21	22-33	34-47	48+		
<1	.3	.7	.0	.0	.0	.0	1.0		.0	.6	.0	.0	.0	.0	.6	
1-2	.3	1.7	.7	.0	.0	.0	2.6		.0	3.1	1.7	.0	.0	.0	4.9	
3-4	.0	1.7	2.5	.0	.0	.0	4.3		.0	2.0	5.0	.0	.0	.0	7.0	
5-6	.0	.0	1.0	.0	.0	.0	1.0		.0	.0	3.7	.3	.0	.0	4.0	
7	.0	.0	.5	.5	.0	.0	1.1		.0	.0	1.4	.3	.0	.0	1.7	
8-9	.0	.0	.2	.0	.0	.0	.2		.0	.0	.1	.0	.0	.0	.1	
10-11	.0	.0	.0	.3	.0	.0	.3		.0	.0	.0	.0	.0	.0	.0	
12	.0	.0	.0	.0	.0	.0	.0		.0	.0	.0	.0	.0	.0	.0	
13-16	.0	.0	.0	.0	.0	.0	.0		.0	.0	.0	.0	.0	.0	.0	
17-19	.0	.0	.0	.0	.0	.0	.0		.0	.0	.0	.0	.7	.0	.7	
20-22	.0	.0	.0	.0	.0	.0	.0		.0	.0	.0	.0	.0	.0	.0	
23-25	.0	.0	.0	.0	.0	.0	.0		.0	.0	.0	.0	.0	.0	.0	
26-32	.0	.0	.0	.0	.0	.0	.0		.0	.0	.0	.0	.0	.0	.0	
33-40	.0	.0	.0	.0	.0	.0	.0		.0	.0	.0	.0	.0	.0	.0	
41-48	.0	.0	.0	.0	.0	.0	.0		.0	.0	.0	.0	.0	.0	.0	
49-60	.0	.0	.0	.0	.0	.0	.0		.0	.0	.0	.0	.0	.0	.0	
61-70	.0	.0	.0	.0	.0	.0	.0		.0	.0	.0	.0	.0	.0	.0	
71-86	.0	.0	.0	.0	.0	.0	.0		.0	.0	.0	.0	.0	.0	.0	
87+	.0	.0	.0	.0	.0	.0	.0		.0	.0	.0	.0	.0	.0	.0	
TOT PCT	.5	4.1	4.9	.8	.0	.0	10.4		.0	5.7	12.0	.6	.7	.0	19.0	



PERIOD: (OVER-ALL) 1963-1969

JANUARY

AREA 0012 CAPE NELSON  
38.45 141.0E

TABLE 18 (CONT)

PCT FREQ OF WIND SPEED (KTS) AND DIRECTION VERSUS SEA HEIGHTS (FT)

HGT	1-3	4-10	11-21	22-33	34-47	48+	PCT	1-3	4-10	11-21	22-33	34-47	48+	PCT
<1	.3	.0	.0	.0	.0	.0	.3	.0	1.1	.0	.0	.0	.0	1.1
1-2	.0	5.4	2.1	.0	.0	.0	7.5	.0	5.0	.7	.0	.0	.0	5.7
3-4	.0	1.8	3.9	.2	.0	.0	5.9	.0	3.5	2.5	.1	.0	.0	6.1
5-6	.0	.3	2.1	.2	.0	.0	2.6	.0	.3	3.4	1.0	.0	.0	4.7
7	.0	.0	.5	.5	.0	.0	.9	.0	.0	2.5	.9	.0	.0	3.5
8-9	.0	.0	.0	.0	.0	.0	.0	.0	.0	.3	.0	.0	.0	.3
10-11	.0	.0	.0	.0	.0	.0	.0	.0	.0	.3	.3	.0	.0	.5
12	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
13-16	.0	.0	.0	.0	.0	.0	.0	.0	.0	.3	.5	.0	.0	.8
17-19	.0	.0	.0	.0	.4	.0	.4	.0	.0	.0	.0	.0	.0	.0
20-22	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
23-25	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
26-32	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
33-40	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
41-48	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
49-60	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
61-70	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
71-86	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
87+	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
TOT PCT	.3	7.5	8.9	.9	.4	.0	17.9	.0	9.9	10.0	2.8	.0	.0	22.7

HGT	1-3	4-10	11-21	22-33	34-47	48+	PCT	1-3	4-10	11-21	22-33	34-47	48+	PCT	TOTAL PCT
<1	.0	.0	.0	.0	.0	.0	.0	.3	.3	.0	.0	.0	.0	.5	
1-2	.3	2.4	.7	.0	.0	.0	3.3	.0	.8	.5	.0	.0	.0	1.3	
3-4	.0	2.1	.0	.0	.0	.0	2.2	.0	.5	.4	.0	.0	.0	1.2	
5-6	.0	.3	3.3	.4	.0	.0	3.9	.0	.3	1.1	.0	.0	.0	1.4	
7	.0	.0	.4	1.4	.0	.0	1.8	.0	.0	.3	.1	.0	.0	.3	
8-9	.0	.0	.0	.3	.0	.0	.3	.0	.0	.0	.5	.0	.0	.5	
10-11	.0	.0	.0	.3	.0	.0	.3	.0	.0	.0	.0	.0	.0	.0	
12	.0	.0	.3	.5	.0	.0	.7	.0	.0	.0	.3	.0	.0	.3	
13-16	.0	.0	.0	.3	.2	.0	.5	.0	.0	.0	.0	.1	.0	.1	
17-19	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
20-22	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
23-25	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
26-32	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
33-40	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
41-48	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
49-60	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
61-70	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
71-86	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
87+	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
TOT PCT	.3	4.8	9.6	3.1	.2	.0	18.0	.5	1.9	2.3	.9	.1	.0	5.7	99.2

WIND SPEED (KTS) VS SEA HEIGHT (FT)

HGT	0-3	4-10	11-21	22-33	34-47	48+	PCT	TOT OBS
<1	2.4	3.2	.0	.0	.0	.0	5.6	
1-2	1.3	19.3	6.6	.0	.0	.0	27.2	
3-4	.3	12.7	20.1	.3	.0	.0	33.3	
5-6	.0	1.1	14.8	1.9	.0	.0	17.7	
7	.0	.0	5.6	4.0	.0	.0	9.5	
8-9	.0	.0	.8	1.1	.0	.0	1.9	
10-11	.0	.0	.3	.8	.0	.0	1.1	
12	.0	.0	.3	.8	.0	.0	1.1	
13-16	.0	.0	.3	.8	.3	.0	1.3	
17-19	.0	.0	.0	.0	1.1	.0	1.1	
20-22	.0	.0	.3	.0	.0	.0	.3	
23-25	.0	.0	.0	.0	.0	.0	.0	
26-32	.0	.0	.0	.0	.0	.0	.0	
33-40	.0	.0	.0	.0	.0	.0	.0	
41-48	.0	.0	.0	.0	.0	.0	.0	
49-60	.0	.0	.0	.0	.0	.0	.0	
61-70	.0	.0	.0	.0	.0	.0	.0	
71-86	.0	.0	.0	.0	.0	.0	.0	
87+	.0	.0	.0	.0	.0	.0	.0	
TOT PCT	4.0	35.2	48.9	9.5	1.3	.0	100.0	378

PERIOD: (OVER-ALL) 1949-1969

TABLE 19

PERCENT FREQUENCY OF WAVE HEIGHT (FT) VS WAVE PERIOD (SECONDS)

PERIOD (SEC)	<1	1-2	3-4	5-6	7	8-9	10-11	12	13-16	17-19	20-22	23-25	26-32	33-40	41-48	49-60	61-70	71-86	87+	TOTAL	MEAN HGT
<6	.0	4.1	12.2	2.8	1.6	.0	.4	.0	.2	.0	.2	.0	.0	.0	.0	.0	.0	.0	.0	102	4
6-7	.0	.4	4.3	9.9	9.3	1.8	.4	.8	.8	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	140	5
8-9	.0	.0	.6	3.6	5.3	5.7	3.0	.6	1.6	.8	.2	.0	.0	.0	.0	.0	.0	.0	.0	105	8
10-11	.0	.4	1.4	1.8	3.2	2.6	1.8	1.2	1.8	.8	.4	.0	.0	.0	.0	.0	.0	.0	.0	77	9
12-13	.0	.0	.8	.7	1.4	.4	1.2	.8	.4	.2	.4	.0	.0	.0	.0	.0	.0	.0	.0	28	13
13	.0	.0	.0	.0	.2	.8	.6	1.4	.6	.4	.0	.6	.0	.0	.0	.0	.0	.0	.0	23	13
INDET	.8	.6	1.4	1.0	.0	.0	.0	.0	.6	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	22	4
TOTAL	4	28	104	97	106	57	97	24	30	11	6	3	0	0	0	0	0	0	0	507	7
PCT	.8	5.5	20.5	19.1	20.9	11.2	7.3	4.7	5.9	2.2	1.2	.6	.0	.0	.0	.0	.0	.0	.0	100.0	

## FEBRUARY

PERIOD: (PRIMARY) 1895-1969  
(OVER-ALL) 1855-1969

AREA 0012 CAPE NELSON  
38.45 141.0E

TABLE 1

## PERCENT FREQUENCY OF WEATHER OCCURRENCE BY WIND DIRECTION

WIND DIR	PRECIPITATION TYPE							OTHER WEATHER PHENOMENA							
	RAIN	RAIN SHWR	DRZL	FRZG PCPN	SNOW	OTHER FRZN PCPN	HAIL	PCPN AT DB TIME	PCPN PAST HOUR	THDR LTNG	FOG PCPN	FOG WD PCPN	SMOKE HAZE	SPRAY BLWG SNOW	NO SIG WEA
N	5.3	1.6	1.6	.0	.0	.0	.0	9.4	.0	3.1	22.0	.0	4.2	.0	62.3
NE	4.8	.6	.0	.0	.0	.0	.0	5.5	1.3	2.6	26.4	.0	2.6	.0	62.4
E	.7	1.4	1.8	.0	.0	.0	.0	3.9	.4	.8	15.9	.0	2.6	.5	75.9
SE	1.7	.8	1.5	.0	.0	.0	.0	4.0	.5	.2	7.5	.0	1.9	.0	85.8
S	1.0	2.8	1.2	.0	.0	.0	.0	4.9	.8	1.0	5.0	.0	.6	.0	87.7
SW	3.0	1.6	1.4	.0	.0	.0	.0	6.0	4.4	1.6	1.8	.0	.0	.0	86.2
W	5.3	4.0	3.2	.0	.0	.0	.0	12.5	1.3	.0	1.0	.0	.0	.0	85.2
NW	8.1	2.5	8.9	.0	.0	.0	.0	19.5	.0	4.2	.8	.0	5.1	.0	72.0
VAR	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
CALM	.0	.0	.0	.0	.0	.0	.0	.0	.0	7.7	.0	.0	7.7	.0	84.6
TOT PCT	2.7	1.9	1.9	.0	.0	.0	.0	6.5	1.4	1.2	7.8	.0	1.5	.1	81.7
TOT OBS:	1255														

TABLE 2

## PERCENT FREQUENCY OF WEATHER OCCURRENCE BY HOUR

HOUR (GMT)	PRECIPITATION TYPE							OTHER WEATHER PHENOMENA							
	RAIN	RAIN SHWR	DRZL	FRZG PCPN	SNOW	OTHER FRZN PCPN	HAIL	PCPN AT DB TIME	PCPN PAST HOUR	THDR LTNG	FOG PCPN	FOG WD PCPN	SMOKE HAZE	SPRAY BLWG SNOW	NO SIG WEA
00603	2.3	1.8	2.1	.0	.0	.0	.0	6.3	1.3	.3	8.9	.0	2.6	.0	80.7
06609	3.4	.7	1.7	.0	.0	.0	.0	5.8	1.4	.7	8.5	.0	1.7	.0	82.4
12615	1.8	1.8	1.8	.0	.0	.0	.0	5.4	1.8	2.1	6.8	.0	1.2	.0	82.7
18621	3.1	3.5	2.4	.0	.0	.0	.0	9.1	.7	1.7	7.3	.0	.3	.3	80.8
TOT PCT	2.6	1.9	2.0	.0	.0	.0	.0	6.5	1.3	1.2	7.9	.0	1.5	.1	81.6
TOT OBS:	1301														

TABLE 3

## PERCENTAGE FREQUENCY OF WIND DIRECTION BY SPEED AND BY HOUR

WIND DIR	WIND SPEED (KNOTS)							TOTAL OBS	PCT FREQ	MEAN SPD	HOUR (GMT)							
	0-3	4-10	11-21	22-33	34-47	48+					00	03	06	09	12	15	18	21
N	.5	2.3	.8	.1	.1	.0		3.8	8.8	5.9	5.1	3.0	2.3	2.4	1.4	4.7	1.8	
NE	.7	3.7	1.6	.3	.0	.0		6.3	9.2	7.6	6.6	3.5	6.1	4.2	8.3	8.0	7.3	
E	1.4	5.9	5.6	1.2	.0	.0		14.1	11.6	12.7	13.1	13.3	18.2	15.6	12.5	15.2	20.0	
SE	.9	8.0	8.0	1.7	.1	.0		18.7	12.2	17.8	18.1	20.1	19.7	21.1	19.3	16.4	17.3	
S	1.0	9.4	7.3	1.8	.3	.0		19.9	12.1	20.1	18.2	20.2	20.3	20.0	22.2	20.0	15.5	
SW	.9	6.5	7.3	2.2	.4	.0		17.4	13.5	16.8	15.3	18.5	15.9	18.2	19.1	17.5	18.2	
W	.4	5.2	5.2	1.5	.3	.0		12.8	13.6	12.1	14.6	13.1	12.9	13.4	10.6	11.7	14.5	
NW	.4	1.9	1.9	.7	.1	.0		5.0	12.8	4.8	7.0	5.9	3.0	4.4	4.2	4.3	1.8	
VAR	.0	.0	.0	.0	.0	.0		.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
CALM	2.0							2.0	.0	2.2	2.1	2.3	1.5	.5	2.4	2.1	3.6	
TOT OBS	181	941	824	208	32	1	2187	2.0	12.0	369	376	383	66	344	212	382	55	
TOT PCT	8.3	43.0	37.7	9.5	1.5	*		100.0		100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	

TABLE 3A

WIND DIR	WIND SPEED (KNOTS)					TOTAL OBS	PCT FREQ	MEAN SPD	HOUR (GMT)			
	0-6	7-16	17-27	28-40	41+				00	06	12	18
N	1.6	1.9	.3	.1	.0		3.8	8.8	5.5	2.9	2.0	4.3
NE	2.3	3.4	.5	.1	.0		6.3	9.2	7.1	3.9	5.8	8.0
E	3.7	7.0	2.9	.5	.0		14.1	11.6	12.9	14.0	14.4	15.8
SE	4.1	9.6	4.4	.6	.0		18.7	12.2	18.0	20.0	20.5	16.5
S	4.1	10.8	4.1	.6	.1		19.9	12.1	19.1	20.3	20.8	19.5
SW	3.2	8.9	4.4	.9	.1		17.4	13.5	16.0	18.2	18.6	17.6
W	2.3	6.1	3.6	.7	.1		12.8	13.6	13.4	13.0	12.4	12.1
NW	1.4	2.0	1.3	.2	*		5.0	12.8	5.9	5.5	4.4	3.9
VAR	.0	.0	.0	.0	.0		.0	.0	.0	.0	.0	.0
CALM	2.0						2.0	.0	2.1	2.2	1.3	2.3
TOT OBS	541	1088	470	80	8	2187	12.0		745	449	556	437
TOT PCT	24.7	49.7	21.5	3.7	.4		100.0		100.0	100.0	100.0	100.0

PERIOD: (PRIMARY) 1895-1969  
(OVER-ALL) 1855-1969

# FEBRUARY

AREA 0012 CAPE NELSON  
38.45 141.0F

TABLE 4

PERCENTAGE FREQUENCY OF WIND SPEED BY HOUR (GMT)

HOUR	CALM	1-3	4-10	WIND SPEED (KNOTS)			48+	MEAN	PCT FREQ	TOTAL OBS
				11-21	22-33	34-47				
00003	2.1	8.2	45.4	34.4	8.2	1.7	.0	11.4	100.0	745
05009	2.2	4.5	43.2	38.5	10.5	1.1	.0	12.1	100.0	449
12015	1.3	5.4	40.1	39.7	11.7	1.6	.2	12.8	100.0	556
18021	2.3	6.2	42.6	39.8	8.0	1.1	.0	11.8	100.0	437
TOT	43	138	941	824	208	32	1	12.0		2187
PCT	2.0	6.3	43.0	37.7	9.5	1.5	*	100.0		

TABLE 5

PCT FREQ OF TOTAL CLOUD AMOUNT (EIGHTHS)  
BY WIND DIRECTION

WIND DIR	0-2	3-4	5-7	8 & 9	TOTAL OBS	MEAN CLOUD COVER
N	1.3	.0	1.3	.4	4.3	
NE	1.9	.5	.8	1.0	3.8	
E	7.4	1.2	3.3	2.4	3.2	
SE	8.4	2.3	7.0	3.9	4.1	
S	4.4	3.0	7.3	5.5	5.1	
SW	3.1	3.5	7.5	5.2	5.4	
W	1.0	2.7	5.6	2.9	5.6	
NW	1.1	.4	1.3	1.0	4.8	
VAR	.0	.0	.0	.0	.0	
CALM	.7	.3	.2	.3	3.6	
TOT OBS	176	83	205	136	600	4.6
TOT PCT	29.3	13.8	34.2	22.7	100.0	

TABLE 6

PERCENTAGE FREQUENCY OF CEILING HEIGHTS (FT, NH >4/8)  
AND OCCURRENCE OF NH <5/8 BY WIND DIRECTION

	000	150	300	600	1000	2000	3500	5000	6500	8000+	NH <5/8 ANY HGT	TOTAL OBS
	149	299	599	999	1999	3499	4999	6499	7999			
N	.0	.0	.1	.3	.3	.6	.2	.0	.2	.0	1.3	
NE	.0	.2	.1	.3	.4	.4	.0	.0	.0	.0	2.8	
E	.0	.0	.1	.6	2.0	.9	.3	.2	.1	.2	4.9	
SE	.0	.0	.1	1.8	3.8	1.5	.5	.2	.6	.0	13.2	
S	.0	.0	.2	1.7	2.8	3.4	1.1	.5	.0	.0	10.6	
SW	.0	.0	.2	2.0	4.5	2.8	.6	.3	.5	.2	8.3	
W	.0	.0	.5	.8	2.4	2.6	.1	.3	.3	.1	5.1	
NW	.0	.0	.0	.3	.8	.3	.3	.1	.0	.0	2.1	
VAR	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
CALM	.0	.0	.2	.0	.0	.0	.0	.0	.0	.2	1.2	
TOT OBS	0	1	9	47	102	74	18	9	10	4	326	600
TOT PCT	.0	.2	1.5	7.8	17.0	12.3	3.0	1.5	1.7	.7	54.3	100.0

TABLE 7

CUMULATIVE PCT FREQ OF SIMULTANEOUS OCCURRENCE  
OF CEILING HEIGHT (NH >4/8) AND VSBY (NM)

CEILING (FEET)	VSBY (NM)							
	>10	>5	>2	>1	>1/2	>1/4	>50YD	>0
>6500	1.5	2.3	2.3	2.3	2.3	2.3	2.3	2.3
>4000	2.5	3.8	3.8	3.8	3.8	3.8	3.8	3.8
>3500	4.9	6.7	6.7	6.7	6.7	6.7	6.7	6.7
>2000	15.2	18.6	18.6	18.6	18.6	18.6	18.6	18.6
>1000	28.9	34.6	35.6	35.6	35.6	35.6	35.6	35.6
>600	34.3	42.0	43.5	43.5	43.5	43.5	43.5	43.5
>300	34.8	43.1	44.9	44.9	44.9	44.9	44.9	44.9
>150	34.8	43.3	45.1	45.1	45.1	45.1	45.1	45.1
>0	34.8	43.3	45.1	45.1	45.1	45.1	45.1	45.1
TOTAL	213	265	276	276	276	276	276	276

TOTAL NUMBER OF OBS: 612

PCT FREQ NH <5/8: 54.9

TABLE 7A

PERCENTAGE FREQ OF LOW CLOUDS (EIGHTHS)

	0	1	2	3	4	5	6	7	8	OBS	TOTAL OBS
	15.8	14.9	8.7	8.7	6.0	4.9	8.1	15.1	17.7	.0	689

## FEBRUARY

PERIOD: (PRIMARY) 1895-1969  
(OVER-ALL) 1855-1969AREA 0012 CAPE NELSON  
38.45 141.0E

TABLE 8

PERCENT FREQ OF WIND DIRECTION VS OCCURRENCE OR NON-OCCURRENCE OF  
PRECIPITATION WITH VARYING VALUES OF VISIBILITY

VSBY (NM)		N	NE	E	SE	S	SW	W	NW	VAR	CALM	PCT	TOTAL DBS
<1/2	PCP	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
	NO PCP	.2	.1	.3	.2	.0	*	*	.0	.0	.0	.9	
	TOT %	.2	.1	.3	.2	.0	*	*	.0	.0	.0	.9	
1/2<1	PCP	.0	.0	.0	.0	.0	.0	.0	.1	.0	.0	.1	
	NO PCP	.7	1.6	2.2	.9	.9	.2	.1	.1	.0	.0	6.6	
	TOT %	.7	1.6	2.2	.9	.9	.2	.1	.2	.0	.0	6.7	
1<2	PCP	.0	.0	.0	.1	.0	.0	.0	.0	.0	.0	.1	
	NO PCP	.2	.2	.2	.3	*	.1	.0	.2	.0	.1	1.1	
	TOT %	.2	.2	.2	.4	*	.1	.0	.2	.0	.1	1.2	
2<5	PCP	.0	*	.3	.3	.0	.2	*	.1	.0	.0	1.0	
	NO PCP	.0	.0	.1	.2	.1	.2	.1	*	.0	.0	.7	
	TOT %	.0	*	.4	.5	.1	.4	.2	.2	.0	.0	1.7	
5<10	PCP	.3	.2	.2	.3	.8	.7	.8	.5	.0	.0	3.8	
	NO PCP	1.0	1.9	4.9	5.5	6.8	7.1	4.4	1.9	.0	.2	33.7	
	TOT %	1.3	2.1	5.1	5.8	7.6	7.8	5.3	2.4	.0	.2	37.5	
10+	PCP	.1	.1	.2	.1	.2	.2	.5	.2	.0	.0	1.6	
	NO PCP	1.5	2.2	7.1	11.0	11.4	9.3	5.8	1.6	.0	.8	50.4	
	TOT %	1.5	2.2	7.2	11.1	11.6	9.4	6.4	1.8	.0	.8	52.0	
TOT DBS													1255
TOT PCT													3.8 6.2 15.3 18.8 20.3 17.9 12.0 4.7 .0 1.0 100.0

TABLE 9

PERCENT FREQ OF WIND DIRECTION VS WIND SPEED  
WITH VARYING VALUES OF VISIBILITY

VSBY (NM)	SPD KTS	N	NE	E	SE	S	SW	W	NW	VAR	CALM	PCT	TOTAL DBS
<1/2	0-3	.1	.0	.0	.0	.0	.0	.0	.0	.0	.0	.1	
	4-10	*	.1	.2	.1	.0	*	*	.0	.0	.0	.5	
	11-21	*	*	.1	.1	.0	*	*	.0	.0	.0	.2	
	22+	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
	TOT %	.1	.1	.2	.2	.0	*	*	.0	.0	.0	.8	
1/2<1	0-3	.2	*	.1	.0	.1	.0	.0	.0	.0	.0	.3	
	4-10	.3	.8	.9	.3	.3	*	.0	.0	.0	.0	2.5	
	11-21	.1	.4	.4	.4	.4	.1	*	.1	.0	.0	2.1	
	22+	.0	.1	.5	*	*	*	*	.1	.0	.0	.8	
	TOT %	.6	1.3	1.9	.8	.8	.2	.1	.2	.0	.0	5.8	
1<2	0-3	.0	.0	.0	.0	.0	.0	.0	.0	.0	.1	.1	
	4-10	.1	.1	.0	.1	.0	.1	.0	.1	.0	.0	.5	
	11-21	.0	.1	.1	.2	*	.0	.0	.0	.0	.0	.4	
	22+	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
	TOT %	.1	.1	.1	.3	*	.1	.0	.1	.0	.1	1.0	
2<5	0-3	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
	4-10	.0	.0	.1	.1	.2	.0	.1	.0	.0	.0	.4	
	11-21	.0	*	.4	.4	*	.4	.1	*	.0	.0	1.4	
	22+	.0	.0	.0	.1	.1	.1	*	.1	.0	.0	.4	
	TOT %	.0	*	.5	.7	.3	.4	.2	.1	.0	.0	2.2	
5<10	0-3	.1	.2	.3	.4	.5	.5	.2	.2	.0	.3	2.8	
	4-10	.6	1.0	1.6	2.6	3.1	2.1	2.1	.8	.0	.0	13.9	
	11-21	.3	.4	2.5	2.0	2.8	2.9	1.3	.9	.0	.0	13.3	
	22+	.2	.3	.3	.7	.9	1.5	1.2	.2	.0	.0	5.2	
	TOT %	1.2	1.9	4.6	5.7	7.3	7.0	5.0	2.1	.0	.3	35.2	
10+	0-3	.2	.3	.7	.3	.7	.5	.2	.2	.0	1.2	4.2	
	4-10	1.2	1.3	4.1	5.0	6.3	4.4	3.0	.9	.0	.0	26.2	
	11-21	.2	.4	2.3	5.5	4.5	4.3	3.0	.6	.0	.0	20.9	
	22+	.0	.1	.2	.9	1.0	.9	.4	.2	.0	.0	3.8	
	TOT %	1.5	2.1	7.3	11.8	12.6	10.1	6.6	1.9	.0	1.2	55.1	
TOT DBS													1456
TOT PCT													3.6 5.6 14.7 19.4 21.0 17.8 11.9 4.5 .0 1.6 100.0

## FEBRUARY

PERIOD: (PRIMARY) 1895-1969  
(OVER-ALL) 1855-1969

AREA 0012 CAPE NELSON  
38.45 141.06

TABLE 10

PERCENT FREQUENCY OF CEILING HEIGHTS (FEET, NH > 4/8) AND  
OCCURRENCE OF NH < 5/8 BY HOUR

HOURL (GMT)	000 149	150 299	300 599	600 999	1000 1999	2000 3499	3500 4999	5000 6499	6500 7999	8000+	TOTAL	NH < 5/8 ANY HGT	TOTAL OBS
00003	.0	.5	.5	7.1	21.3	10.4	3.3	1.1	1.1	.0	45.4	54.6	183
06009	.0	.0	2.5	4.9	14.8	13.0	2.5	.6	1.2	1.2	40.7	59.3	162
12015	.0	.0	1.3	11.2	9.2	10.5	2.0	2.0	.0	1.3	37.5	62.5	152
18021	.0	.0	1.3	6.6	17.1	11.8	3.3	2.0	3.9	.0	46.1	53.9	152
TOT	0	1	9	48	103	74	18	9	10	4	276	373	649
PCT	.0	.2	1.4	7.4	15.9	11.4	2.8	1.4	1.5	.6	42.5	57.5	100.0

TABLE 11

PERCENT FREQUENCY VSBY (NM) BY HOUR

HOURL (GMT)	<1/2	1/2<1	1<2	2<5	5<10	10+	TOTAL OBS
00003	1.1	6.5	2.0	1.3	35.3	53.7	447
06009	.3	6.8	1.2	2.6	32.6	56.5	340
12015	1.0	5.2	.5	1.5	40.2	51.5	388
18021	.9	4.9	.3	3.7	33.0	57.2	327
TOT	13	88	14	33	533	819	1502
PCT	.9	5.9	1.1	2.2	35.5	54.5	100.0

TABLE 12

CUMULATIVE PCT FREQ OF RANGES OF VSBY (NM) AND/OR  
CEILING HGT (FEET, NH > 4/8), BY HOUR

HOURL (GMT)	<150 <500	<600 <1	<1000 <5	1000+ AND 5+	NH < 5/8 AND 5+	TOTAL OBS
00003	.0	1.2	10.0	38.8	51.2	170
06009	.0	2.6	9.2	34.2	56.6	152
12015	.0	1.4	13.9	25.7	60.4	144
18021	.0	1.4	9.6	39.0	51.4	146
TOT	0	10	65	212	335	612
PCT	.0	1.6	10.6	34.6	54.7	100.0

TABLE 13

PERCENT FREQUENCY OF RELATIVE HUMIDITY BY TEMP

TEMP F	0-29	30-39	40-49	50-59	60-69	70-79	80-89	90-100	TOTAL OBS	PCT FREQ
80/84	.0	.3	.1	.0	.0	.0	.0	.0	3	.4
75/79	.0	.0	.4	.1	.3	.0	.0	.0	6	.8
70/74	.0	.0	.0	.3	.1	.7	.4	.1	12	1.6
65/69	.0	.0	.0	.4	1.3	4.6	6.1	3.4	121	15.7
60/64	.0	.0	.1	1.6	7.4	15.2	19.6	11.3	425	55.3
55/59	.0	.0	.0	1.3	8.7	7.4	7.8	3.4	197	25.6
50/54	.0	.0	.0	.0	.3	.4	.0	.0	5	.7
TOTAL	0	2	5	28	116	217	261	140	769	100.0
PCT	.0	.3	.7	3.6	15.1	28.2	33.9	18.2		

TABLE 14

PERCENT FREQUENCY OF WIND DIRECTION BY TEMP

N	NE	E	SE	S	SW	W	NW	VAR	CALM
.2	.0	.1	.0	.0	.0	.0	.1	.0	.0
.3	.0	.2	.8	.1	.0	.0	.0	.0	.1
.2	.0	.3	.0	.0	.4	.0	.5	.0	.3
.9	1.3	4.8	3.0	1.0	1.3	2.2	1.1	.0	.1
1.3	2.8	7.5	11.2	11.0	10.2	7.7	2.8	.0	.9
.2	.2	2.0	6.7	7.4	7.2	3.2	.4	.0	.3
.0	.0	.0	.1	.3	.3	.0	.0	.0	.0
3.1	4.3	15.0	19.1	19.7	19.3	13.0	4.8	.0	1.7

TABLE 15

MEANS, EXTREMES AND PERCENTILES OF TEMP (DEG F) BY HOUR

HOURL (GMT)	MAX	99%	95%	50%	5%	1%	MIN	MEAN	TOTAL OBS
00003	83	75	70	62	57	56	53	62.9	727
06009	83	79	72	63	58	56	54	63.7	440
12015	75	70	67	61	57	55	53	61.3	580
18021	73	70	66	61	56	54	53	60.8	443
TOT	83	74	69	62	57	55	53	62.2	2170

TABLE 16

PERCENT FREQUENCY OF RELATIVE HUMIDITY BY HOUR

HOURL (GMT)	0-29	30-59	60-69	70-79	80-89	90-100	MEAN	TOTAL OBS
00003	.0	6.3	16.1	33.0	26.3	18.3	78	224
06009	.0	4.9	21.8	31.9	29.2	12.4	77	185
12015	.0	4.0	7.1	26.3	45.5	17.2	81	198
18021	.0	2.2	15.3	21.3	35.5	25.7	81	183
TOT	0	35	118	224	268	145	79	790



## FEBRUARY

PERIOD: (PRIMARY) 1895-1969  
(OVER-ALL) 1855-1969

TABLE 17

AREA 0012 CAPE NELSON  
38.45 141.0E

PCT FREQ OF AIR TEMPERATURE (DEG F) AND THE OCCURRENCE OF FOG (WITHOUT PRECIPITATION)  
VS AIR-SEA TEMPERATURE DIFFERENCE (DEG F)

AIR-SEA TMP DIF	53 56	57 60	61 64	65 68	69 72	73 76	77 80	81 84	TOT	W FOG	WD FOG
20/22	.0	.0	.0	.0	.0	.0	.0	.1	1	.0	.1
17/19	.0	.0	.0	.0	.0	.0	.2	.0	2	.1	.1
14/16	.0	.0	.0	.1	.0	.0	.3	.1	5	.2	.3
11/13	.0	.0	.0	.0	.0	.1	.3	.1	5	.1	.4
9/10	.0	.0	.2	.0	.1	.5	.1	.0	10	.2	.7
7/8	.0	.0	.3	.0	.4	.2	.0	.0	10	.2	.7
6	.0	.2	.2	.1	.4	.1	.0	.0	11	.0	1.0
5	.0	.0	.3	.8	.8	.0	.0	.0	21	.5	1.3
4	.0	.0	.4	2.0	1.4	.0	.0	.0	43	.7	3.1
3	.0	.3	.6	1.1	.5	.0	.0	.0	29	.3	2.3
2	.0	.7	2.5	3.5	.7	.0	.0	.0	85	1.4	6.1
1	.0	.9	6.0	3.1	.3	.0	.0	.0	116	1.2	9.0
0	.2	2.4	11.2	2.3	.1	.0	.0	.0	183	1.5	14.6
-1	.3	3.9	8.0	1.0	.1	.0	.0	.0	150	1.1	12.0
-2	.3	7.7	6.0	.4	.0	.0	.0	.0	164	.5	13.9
-3	.6	7.2	3.3	.1	.0	.0	.0	.0	128	.3	11.0
-4	.5	5.5	1.3	.2	.0	.0	.0	.0	86	.1	7.5
-5	.3	3.1	.4	.0	.0	.0	.0	.0	43	.1	3.7
-6	.4	.9	.4	.0	.0	.0	.0	.0	19	.0	1.7
-7/-8	.9	.7	.1	.1	.0	.0	.0	.0	20	.0	1.8
-9/-10	.1	.4	.1	.0	.0	.0	.0	.0	6	.0	.5
-11/-13	.1	.0	.0	.0	.0	.0	.0	.0	1	.0	.1
TOTAL	41	468	55	10	5	1138	100.0	8.4	91.6		
PCT	3.6	33.7	41.1	14.6	4.8	.9	.6	.4			

PERIOD: (OVER-ALL) 1963-1969

TABLE 18

PCT FREQ OF WIND SPEED (KTS) AND DIRECTION VERSUS SEA HEIGHTS (FT)

HGT	1-3	4-10	11-21	22-33	34-47	48+	PCT	1-3	4-10	11-21	22-33	34-47	48+	PCT
<1	.3	.0	.0	.0	.0	.0	.3	.0	.6	.0	.0	.0	.0	.6
1-2	.0	1.6	.3	.0	.0	.0	1.9	.3	.8	.0	.0	.0	.0	1.0
3-4	.0	.3	.2	.0	.0	.0	.5	.0	.8	.3	.0	.0	.0	1.1
5-6	.0	.3	.0	.0	.0	.0	.3	.0	.1	.3	.0	.0	.0	.3
7	.0	.0	.0	.2	.0	.0	.2	.0	.0	.1	.1	.0	.0	.1
8-9	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
10-11	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
12	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
13-16	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
17-19	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
20-22	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
23-25	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
26-32	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
33-40	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
41-48	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
49-60	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
61-70	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
71-86	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
87+	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
TOT PCT	.3	2.1	.5	.2	.0	.0	3.0	.3	2.2	.6	.1	.0	.0	3.2

HGT	1-3	4-10	11-21	22-33	34-47	48+	PCT	1-3	4-10	11-21	22-33	34-47	48+	PCT
<1	.6	1.2	.0	.0	.0	.0	1.8	.4	.4	.0	.0	.0	.0	.8
1-2	.8	.9	.8	.0	.0	.0	2.5	.0	2.3	1.1	.0	.0	.0	3.4
3-4	.5	3.0	1.7	.2	.0	.0	5.5	.0	3.4	3.2	.1	.0	.0	6.6
5-6	.0	.5	3.0	.0	.0	.0	3.5	.0	1.4	3.8	1.0	.0	.0	6.3
7	.0	.0	.8	.3	.0	.0	1.1	.0	.0	1.5	.5	.0	.0	2.0
8-9	.0	.0	.0	.0	.0	.0	.0	.0	.0	.5	.3	.0	.0	.8
10-11	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
12	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
13-16	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
17-19	.0	.0	.0	.5	.0	.0	.5	.0	.0	.0	.3	.0	.0	.3
20-22	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
23-25	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
26-32	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
33-40	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
41-48	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
49-60	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
61-70	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
71-86	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
87+	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
TOT PCT	1.9	5.6	6.4	.9	.0	.0	14.8	.4	7.5	10.1	2.2	.0	.0	20.2

PERIOD: (OVER-ALL) 1963-1969

FEBRUARY

AREA 0012 CAPE NELSON

TABLE 18 (CONT)

38.45 141.0E

PCT FREQ OF WIND SPEED (KTS) AND DIRECTION VERSUS SEA HEIGHTS (FT)

HGT	S							PCT	SW							PCT
	1-3	4-10	11-21	22-33	34-47	48+			1-3	4-10	11-21	22-33	34-47	48+		
<1	.3	.5	.0	.0	.0	.0		.7	.5	.2	.0	.0	.0	.0		.7
1-2	.0	4.7	1.9	.0	.0	.0		6.7	.0	2.3	.6	.0	.0	.0		2.9
3-4	.0	4.3	2.6	.2	.0	.0		7.0	.0	2.0	3.1	.1	.0	.0		5.2
5-6	.0	1.2	4.1	.4	.0	.0		5.6	.3	.8	4.3	.6	.0	.0		6.0
7	.0	.0	.9	.8	.0	.0		1.7	.0	.0	.4	1.0	.0	.0		1.4
8-9	.0	.0	.0	.0	.0	.0		.0	.0	.0	.0	.5	.0	.0		.5
10-11	.0	.0	.2	.3	.0	.0		.5	.0	.0	.1	.0	.0	.0		.1
12	.0	.0	.0	.3	.0	.0		.3	.0	.0	.0	.0	.0	.0		.0
13-16	.0	.0	.0	.0	.0	.0		.0	.0	.0	.0	.0	.0	.0		.0
17-19	.0	.0	.0	.0	.0	.0		.0	.0	.0	.0	.0	.0	.0		.0
20-22	.0	.0	.0	.0	.0	.0		.0	.0	.0	.0	.0	.3	.0		.3
23-25	.0	.0	.0	.0	.0	.0		.0	.0	.0	.0	.0	.0	.0		.0
26-32	.0	.0	.0	.0	.0	.0		.0	.0	.0	.0	.0	.0	.0		.0
33-40	.0	.0	.0	.0	.0	.0		.0	.0	.0	.0	.0	.0	.0		.0
41-48	.0	.0	.0	.0	.0	.0		.0	.0	.0	.0	.0	.0	.0		.0
49-60	.0	.0	.0	.0	.0	.0		.0	.0	.0	.0	.0	.0	.0		.0
61-70	.0	.0	.0	.0	.0	.0		.0	.0	.0	.0	.0	.0	.0		.0
71-86	.0	.0	.0	.0	.0	.0		.0	.0	.0	.0	.0	.0	.0		.0
87+	.0	.0	.0	.0	.0	.0		.0	.0	.0	.0	.0	.0	.0		.0
TOT PCT	.3	10.6	9.7	1.9	.0	.0		22.4	.8	5.3	8.5	2.3	.3	.0		17.1

HGT	W							PCT	NW							PCT	TOTAL PCT
	1-3	4-10	11-21	22-33	34-47	48+			1-3	4-10	11-21	22-33	34-47	48+			
<1	.0	1.4	.0	.0	.0	.0		1.4	.3	.3	.0	.0	.0	.0		.5	
1-2	.0	3.4	1.6	.0	.0	.0		4.9	.0	.5	.0	.0	.0	.0		.5	
3-4	.3	1.7	1.0	.0	.0	.0		2.9	.0	.9	.6	.0	.0	.0		1.5	
5-6	.0	.0	2.5	.0	.0	.0		2.5	.0	.0	.9	.0	.0	.0		.9	
7	.0	.0	1.0	.0	.0	.0		1.0	.0	.0	.3	.0	.0	.0		.3	
8-9	.0	.0	.0	.0	.0	.0		.0	.0	.0	.3	.5	.0	.0		.8	
10-11	.0	.0	.0	.0	.0	.0		.0	.0	.0	.0	.0	.0	.0		.0	
12	.0	.0	.0	.0	.0	.0		.0	.0	.0	.0	.0	.0	.0		.0	
13-16	.0	.0	.0	.0	.0	.0		.0	.0	.0	.0	.0	.0	.0		.0	
17-19	.0	.0	.0	.0	.0	.0		.0	.0	.0	.0	.0	.0	.0		.0	
20-22	.0	.0	.0	.0	.0	.0		.0	.0	.0	.0	.0	.0	.0		.0	
23-25	.0	.0	.0	.0	.0	.0		.0	.0	.0	.0	.0	.0	.0		.0	
26-32	.0	.0	.0	.0	.0	.0		.0	.0	.0	.0	.0	.0	.0		.0	
33-40	.0	.0	.0	.0	.0	.0		.0	.0	.0	.0	.0	.0	.0		.0	
41-48	.0	.0	.0	.0	.0	.0		.0	.0	.0	.0	.0	.0	.0		.0	
49-60	.0	.0	.0	.0	.0	.0		.0	.0	.0	.0	.0	.0	.0		.0	
61-70	.0	.0	.0	.0	.0	.0		.0	.0	.0	.0	.0	.0	.0		.0	
71-86	.0	.0	.0	.0	.0	.0		.0	.0	.0	.0	.0	.0	.0		.0	
87+	.0	.0	.0	.0	.0	.0		.0	.0	.0	.0	.0	.0	.0		.0	
TOT PCT	.3	6.4	5.9	.0	.0	.0		12.6	.3	1.7	2.0	.5	.0	.0		4.5	97.7

WIND SPEED (KTS) VS SEA HEIGHT (FT)

HGT	0-3	4-10	11-21	22-33	34-47	48+	PCT	TOT OBS
<1	5.1	4.4	.0	.0	.0	.0	9.5	
1-2	1.0	16.5	6.2	.0	.0	.0	23.7	
3-4	.8	16.2	12.6	.5	.0	.0	30.1	
5-6	.3	4.1	18.8	2.1	.0	.0	25.2	
7	.0	.0	4.9	2.8	.0	.0	7.7	
8-9	.0	.0	.8	1.3	.0	.0	2.1	
10-11	.0	.0	.3	.3	.0	.0	.5	
12	.0	.0	.0	.3	.0	.0	.3	
13-16	.0	.0	.0	.0	.0	.0	.0	
17-19	.0	.0	.0	.8	.0	.0	.8	
20-22	.0	.0	.0	.0	.3	.0	.3	
23-25	.0	.0	.0	.0	.0	.0	.0	
26-32	.0	.0	.0	.0	.0	.0	.0	
33-40	.0	.0	.0	.0	.0	.0	.0	
41-48	.0	.0	.0	.0	.0	.0	.0	
49-60	.0	.0	.0	.0	.0	.0	.0	
61-70	.0	.0	.0	.0	.0	.0	.0	
71-86	.0	.0	.0	.0	.0	.0	.0	
87+	.0	.0	.0	.0	.0	.0	.0	
TOT PCT	7.2	41.1	43.4	8.0	.3	.0	100.0	389

PERIOD: (OVER-ALL) 1949-1969

TABLE 19

PERCENT FREQUENCY OF WAVE HEIGHT (FT) VS WAVE PERIOD (SECONDS)

PERIOD (SEC)	<1	1-2	3-4	5-6	7	8-9	10-11	12	13-16	17-19	20-22	23-25	26-32	33-40	41-48	49-60	61-70	71-86	87+	TOTAL	MEAN HGT
<6	1.3	5.6	7.1	7.3	1.3	1.5	.2	.2	.2	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	129	4
6-7	.0	.2	3.8	7.7	5.2	3.4	1.3	.4	.8	.0	.2	.0	.0	.0	.0	.0	.0	.0	.0	120	5
8-9	.2	.4	1.3	3.8	10.5	4.4	2.9	.8	.4	.4	.2	.0	.0	.0	.0	.0	.0	.0	.0	132	7
10-11	.0	.0	.2	2.3	3.4	5.0	2.5	.2	1.0	.4	.0	.0	.4	.0	.0	.0	.0	.0	.0	85	9
12-13	.0	.0	.0	.6	.6	1.3	1.1	.4	.6	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	24	15
>13	.0	.0	.0	.0	.0	.0	.2	.2	.4	.0	.0	.0	.2	.0	.0	.0	.0	.0	.0	5	4
INDST	.4	.8	2.1	1.1	.8	.6	.4	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	37	6
TOTAL	10	36	76	119	114	86	45	11	17	4	2	0	3	0	0	0	0	0	0	522	
PCT	1.9	6.9	14.6	22.8	21.8	16.3	8.6	2.1	3.3	.8	.4	.0	.6	.0	.0	.0	.0	.0	.0	100.0	

PERIOD: (PRIMARY) 1898-1971  
(OVER-ALL) 185A-1971

MARCH

AREA 0012 CAPE NELSON  
38.45 141.1E

TABLE 1

PERCENT FREQUENCY OF WEATHER OCCURRENCE BY WIND DIRECTION

PRECIPITATION TYPE										OTHER WEATHER PHENOMENA					
WIND DIR	RAIN	RAIN SHHR	DRZL	FRZG PCPN	SNOW	OTHER FRZN PCPN	HAIL	PCPN AT OB TIME	PCPN PAST HOUR	THOR LTNG	FOG W/ PCPN	FOG W/ PCPN PAST HR	SMOKE HAZE	SPRAY BLWG DUST	NO SIG WEA
N	.5	4.0	.5	.0	.0	.0	.0	5.0	1.1	1.6	3.7	.0	2.4	.0	86.8
NE	3.2	2.3	3.0	.0	.0	.0	.0	8.5	.0	2.8	4.2	.0	3.5	.0	82.4
E	.5	1.6	.4	.0	.0	.0	.0	2.5	.0	1.3	5.6	.0	.9	.0	89.6
SE	.0	1.3	.8	.0	.0	.0	.0	2.1	.7	1.1	4.4	.0	.4	.0	91.3
S	2.2	2.5	1.0	.0	.0	.0	.0	5.7	1.2	1.1	2.0	.0	.0	.0	90.8
SW	1.5	10.2	1.2	.0	.0	.0	.0	12.9	3.9	.4	.8	.0	.1	.0	82.0
W	5.2	8.0	1.7	.0	.0	.0	.0	14.5	5.4	1.2	.4	.0	.8	.0	78.5
NW	2.1	6.3	.5	.0	.0	.0	.0	8.8	1.4	.2	1.9	.0	.2	.0	87.5
VAR	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
CALM	.0	4.8	4.8	.0	.0	.0	.0	9.5	.0	.0	.0	.0	4.8	.0	85.7
TOT PCT	1.9	4.8	1.2	.0	.0	.0	.0	7.8	2.0	1.1	2.6	.0	.8	.0	86.0
TOT OBS:	1455														

TABLE 2

PERCENT FREQUENCY OF WEATHER OCCURRENCE BY HOUR

HOUR (GMT)	PRECIPITATION TYPE							OTHER WEATHER PHENOMENA							
	RAIN	RAIN SHWR	DRZL	FRZG PCPN	SNOW	OTHER FRZN PCPN	HAIL	PCPN AT OB TIME	PCPN PAST HOUR	THDR LTNG	FGG WD PCPN	FGG WD PCPN PAST HR	SMOKE HAZE	SPRAY BLWG DUST	NO SIG WEA
00603	2.0	5.7	.9	.0	.0	.0	.0	8.3	2.0	.2	3.7	.0	1.5	.0	84.5
06009	1.1	4.4	.8	.0	.0	.0	.0	6.4	1.4	.3	3.9	.0	.6	.0	87.8
12015	2.2	5.8	1.1	.0	.0	.0	.0	9.1	1.1	2.8	1.4	.0	.0	.0	86.8
18021	2.5	3.7	2.5	.0	.0	.0	.0	8.6	3.4	1.5	1.5	.0	.9	.0	84.3
TOT PCT TOT OBS:	1.9 1505	5.0	1.3	.0	.0	.0	.0	8.1	1.9	1.1	2.7	.0	.8	.0	85.8

TABLE 3

PERCENTAGE FREQUENCY OF WIND DIRECTION BY SPEED AND BY HOUR

WIND DIR	WIND SPEED (KNOTS)							TOTAL OBS	PCT FREQ	MEAN SPD	HOUR (GMT)							
	0-3	4-10	11-21	22-33	34-47	48+					00	03	06	09	12	15	18	21
N	.7	3.2	1.8	.2	*	.0		6.0	9.6		8.6	7.7	4.0	1.9	4.1	5.9	5.9	9.1
NE	1.1	3.6	2.1	.3	.0	.0		7.1	9.0		9.3	7.1	3.1	3.2	6.1	8.9	9.1	10.5
E	1.0	5.9	4.2	1.0	.1	.0		12.3	11.1		9.5	13.7	12.9	15.7	12.2	12.9	12.1	13.2
SE	.9	7.8	6.2	1.1	.0	.0		16.1	11.1		13.0	17.5	16.4	20.8	18.3	16.0	15.1	17.3
S	.7	8.0	5.7	1.1	.1	.0		15.7	11.3		13.6	17.4	16.7	12.8	17.4	16.7	14.6	8.2
SW	.6	6.2	7.1	3.2	.8	*		18.0	15.3		19.0	13.9	20.0	17.9	18.5	16.1	19.3	17.3
W	.6	5.8	5.8	2.7	.4	*		15.3	14.5		16.1	12.4	18.2	16.7	16.2	14.5	13.8	12.7
NW	.4	3.3	2.9	.8	.1	.0		7.5	12.3		9.5	8.5	6.9	7.1	5.5	7.0	7.2	8.2
VAR	.0	.0	.0	.0	.0	.0		.0	.0		.0	.0	.0	.0	.0	.0	.0	.0
CALM	2.1							2.1	.0		1.6	1.8	1.8	3.8	1.7	2.1	2.8	3.5
TOT OBS	198	1069	874	254	37	2	2434		12.0		444	390	442	78	363	237	425	55
TOT PCT	8.1	43.9	35.9	10.4	1.5	.1		100.0			100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0

TABLE 3A

WIND DIR	WIND SPEED (KNOTS)							TOTAL OBS	PCT FREQ	MEAN SPD	HOUR (GMT)			
	0-6	7-16	17-27	28-40	41+						00	06	12	18
N	2.3	2.7	.9	.1	.0			6.0	9.6		8.2	3.7	4.8	6.3
NE	3.0	3.3	.7	.1	.0			7.1	9.0		8.2	3.1	7.2	9.3
E	3.3	6.4	2.3	.2	.0			12.3	11.1		11.5	13.3	12.5	12.2
SE	4.3	8.6	3.0	.2	.0			16.1	11.1		15.1	17.1	17.4	15.4
S	4.0	8.7	2.6	.4	.0			15.7	11.3		15.4	16.1	17.1	13.9
SW	2.6	8.3	5.2	1.6	.2			18.0	15.3		16.6	19.7	17.6	19.1
W	2.8	6.7	4.3	1.3	.0			15.3	14.5		14.4	17.9	15.5	13.7
NW	2.0	3.3	2.0	.2	.0			7.5	12.3		9.0	6.9	6.1	7.3
VAR	.0	.0	.0	.0	.0			.0	.0		.0	.0	.0	.0
CALM	2.1							2.1	.0		1.7	2.1	1.8	2.9
TOT OBS	640	1170	514	100	10	2434			12.0		834	520	600	480
TOT PCT	26.3	48.1	21.1	4.1	.4			100.0			100.0	100.0	100.0	100.0

PERIOD: (PRIMARY) 1898-1971  
(OVER-ALL) 1856-1971

MARCH

AREA 0012 CAPE NELSON  
38.45 141.1E

TABLE 4

PERCENTAGE FREQUENCY OF WIND SPEED BY HOUR (GMT)

HOUR	CALM	WIND SPEED (KNOTS)						MEAN	PCT FREQ	TOTAL OBS
		1-3	4-10	11-21	22-33	34-47	48+			
0000	1.7	7.7	44.8	34.2	10.2	1.4	.0	11.8	100.0	834
0600	2.1	4.4	43.8	36.9	11.2	1.3	.2	12.3	100.0	520
1200	1.8	5.8	43.2	37.3	10.0	1.7	.2	12.2	100.0	600
1800	2.9	5.4	43.3	36.0	10.6	1.7	.0	11.9	100.0	480
TOT	50	148	1069	874	254	37	2	12.0		2434
PCT	2.1	6.1	43.9	35.9	10.4	1.5	.1	100.0		

TABLE 5

PCT FREQ OF TOTAL CLOUD AMOUNT (EIGHTHS)  
BY WIND DIRECTION

WIND DIRECTION	0-2	3-4	5-7	8 & OBSCD	TOTAL OBS	MEAN CLOUD COVER
N	3.6	1.2	1.2	.9		3.0
NE	3.0	.4	1.8	.8		3.4
E	6.7	1.5	3.1	.8		2.9
SE	4.0	2.8	4.5	3.9		4.7
S	2.7	2.9	5.6	3.5		5.2
SW	2.5	4.7	7.4	4.1		5.2
W	2.5	2.2	6.8	5.3		5.7
NW	1.9	1.0	2.2	2.4		5.2
CALM	.0	.0	.0	.0		.0
VAR	.9	.1	.4	.4		3.3
TOT OBS	208	125	248	107	749	4.6
TOT PCT	27.8	16.8	33.1	22.3	100.0	

TABLE 6

PERCENTAGE FREQUENCY OF CEILING HEIGHTS (FT, NH >478)  
AND OCCURRENCE OF NH <5/8 BY WIND DIRECTION

000	150	300	600	1000	2000	3500	5000	6500	8000+	NH <5/8 ANY HGT	TOTAL OBS
149	299	599	999	1999	3499	4999	6499	7999			
.0	.0	.0	.1	.3	.3	.3	.1	.0	.1	5.5	
.1	.0	.0	.1	.5	.9	.1	.2	.0	.0	4.1	
.1	.0	.0	.1	1.0	.7	.2	.1	.3	.0	9.6	
.0	.0	.4	2.2	2.0	1.6	.3	.1	.0	.0	8.4	
.0	.1	1.4	3.3	.8	.6	.3	.0	.5	.7	7.8	
.0	.0	.3	2.2	3.9	2.3	.9	.0	.2	.1	8.8	
.0	.1	.0	1.7	3.9	3.0	.9	.4	.1	.0	6.8	
.0	.0	.0	.2	1.8	1.4	.4	.0	.0	.0	3.7	
.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
.0	.0	.0	.0	.0	.7	.0	.0	.0	.0	1.2	
.2	1	3	46	127	90	38	11	5	6	420	749
.3	.1	.4	6.1	17.0	12.0	5.1	1.5	.7	.8	56.1	100.0

TABLE 7

CUMULATIVE PCT FREQ OF SIMULTANEOUS OCCURRENCE  
OF CEILING HEIGHT (NH >478) AND VSBY (NM)

CEILING (FEET)	VSBY (NM)							
	>10	>5	>2	>1	>1/2	>1/4	>50YD	>0
>6500	1.3	1.3	1.4	1.4	1.4	1.4	1.4	1.4
>5000	2.5	2.9	3.0	3.0	3.0	3.0	3.0	3.0
>3500	7.1	8.0	8.1	8.1	8.1	8.1	8.1	8.1
>2000	16.9	19.4	20.1	20.1	20.1	20.1	20.1	20.1
>1000	31.6	35.6	37.0	37.0	37.0	37.0	37.0	37.0
>600	35.9	41.4	43.0	43.0	43.1	43.1	43.1	43.1
>300	36.2	41.7	43.4	43.4	43.5	43.5	43.5	43.5
>150	36.2	41.8	43.5	43.5	43.6	43.6	43.6	43.6
>0	36.3	41.9	43.6	43.6	43.8	43.8	43.9	43.9
TOTAL	277	320	333	333	334	334	335	335

TOTAL NUMBER OF OBS: 763

PCT FREQ NH <5/8: 56.1

TABLE 7A

PERCENTAGE FREQ OF LOW CLOUDS (EIGHTHS)

0	1	2	3	4	5	6	7	8	OBSCD	TOTAL OBS
16.3	11.6	9.4	10.4	6.8	6.8	7.9	11.8	18.7	.2	847

PERIOD: (PRIMARY) 1898-1971  
(OVER-ALL) 1856-1971

MARCH

AREA 0012 CAPE NELSON  
38.45 141.1E

TABLE 8

PERCENT FREQ OF WIND DIRECTION VS OCCURRENCE OR NON-OCCURRENCE OF  
PRECIPITATION WITH VARYING VALUES OF VISIBILITY

VISBY (NM)		N	NE	E	SE	S	SW	W	NW	VAR	CALM	PCT	TOTAL OBS
<1/2	PCP	.0	.0	.0	.0	.0	.0	.1	.0	.0	.0	.1	
	NO PCP	.1	.0	.1	.1	.0	.0	.0	.0	.0	.0	.3	
	TOT %	.1	.0	.1	.1	.0	.0	.1	.0	.0	.0	.3	
1/2<1	PCP	.0	.1	.1	.0	.1	.2	.2	.0	.0	.0	.7	
	NO PCP	.2	.2	.3	.2	.3	.1	.1	.1	.0	.0	1.5	
	TOT %	.2	.3	.3	.2	.4	.3	.2	.1	.0	.0	2.2	
1<2	PCP	.0	.0	.0	.0	.0	.0	.1	.0	.0	.0	.1	
	NO PCP	.2	.1	.0	.0	.0	.0	.0	.0	.0	.0	.3	
	TOT %	.2	.1	.0	.0	.0	.0	.1	.0	.0	.0	.3	
2<5	PCP	.0	.0	.0	.0	.1	.2	.1	.1	.0	.0	.5	
	NO PCP	.0	.1	.1	.2	.2	.3	*	*	.0	.0	1.0	
	TOT %	.0	.1	.1	.2	.3	.5	.2	.1	.0	.0	1.4	
5<10	PCP	.3	.3	.2	.2	.5	1.2	1.5	.5	.0	.1	4.8	
	NO PCP	1.9	3.0	5.3	5.8	4.8	4.8	4.6	2.5	.0	.3	33.1	
	TOT %	2.2	3.2	5.5	6.0	5.3	6.0	6.1	3.1	.0	.4	37.9	
10+	PCP	.1	.3	.1	.1	.2	.6	.4	*	.0	.1	1.7	
	NO PCP	3.8	3.4	6.7	8.9	9.4	9.9	8.8	4.0	.0	1.0	56.1	
	TOT %	3.9	3.7	6.8	9.1	9.6	10.5	9.2	4.1	.0	1.0	57.8	
TOT OBS													
TOT PCT													
		6.5	7.4	12.9	15.5	15.6	17.4	15.9	7.4	.0	1.4	100.0	1455

TABLE 9

PERCENT FREQ OF WIND DIRECTION VS WIND SPEED  
WITH VARYING VALUES OF VISIBILITY

VISBY (NM)	SPD KTS	N	NE	E	SE	S	SW	W	NW	VAR	CALM	PCT	TOTAL OBS
<1/2	0-3	.0	.0	.1	.0	.0	.0	.0	.0	.0	.0	.1	
	4-10	.1	.0	.0	.1	.0	.0	.0	.0	.0	.0	.1	
	11-21	.0	.0	.1	.0	.0	.0	.0	.0	.0	.0	.1	
	22+	.0	.0	.0	.0	.0	.0	.1	.0	.0	.0	.1	
	TOT %	.1	.0	.1	.1	.0	.0	.1	.0	.0	.0	.3	
1/2<1	0-3	.0	.0	.0	.0	.1	.0	.0	.0	.0	.0	.1	
	4-10	.0	.1	.1	*	.1	.1	.0	.0	.0	.0	.5	
	11-21	.1	.2	.1	.1	.1	.1	*	.1	.0	.0	1.0	
	22+	.0	.0	.0	.1	.0	.1	.2	.0	.0	.0	.4	
	TOT %	.1	.3	.3	.2	.4	.3	.3	.1	.0	.0	2.0	
1<2	0-3	.1	.1	.0	.0	.0	.0	.0	.0	.0	.0	.1	
	4-10	.1	*	.0	.0	.1	.1	*	*	.0	.0	.3	
	11-21	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
	22+	.0	.0	.0	.0	.0	.0	.1	.0	.0	.0	.1	
	TOT %	.2	.1	.0	.0	.1	*	.1	*	.0	.0	.5	
2<5	0-3	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
	4-10	.0	.1	.1	.2	.4	.3	*	.0	.0	.0	1.1	
	11-21	.0	.1	.1	.1	.0	.1	.0	.0	.0	.0	.3	
	22+	.0	.0	.0	.0	.1	.1	.1	.1	.0	.0	.4	
	TOT %	.0	.1	.1	.2	.5	.6	.2	.1	.0	.0	1.8	
5<10	0-3	.2	.5	.6	.2	.4	.1	.3	.2	.0	.6	3.1	
	4-10	.9	1.5	2.0	2.8	2.4	2.1	2.2	1.6	.0	.0	15.4	
	11-21	.7	.8	2.2	2.2	1.9	2.0	2.0	.8	.0	.0	12.6	
	22+	.1	.1	.3	.4	.2	1.4	1.2	.3	.0	.0	4.1	
	TOT %	2.0	2.9	5.0	5.6	5.0	5.6	5.7	2.9	.0	.6	35.3	
10+	0-3	.3	.3	.2	.5	.1	.4	.3	.3	.0	1.3	3.6	
	4-10	2.5	2.1	3.5	4.9	5.4	4.1	4.2	2.1	.0	.0	28.8	
	11-21	.9	1.4	2.3	3.4	3.8	5.2	3.5	1.5	.0	.0	21.9	
	22+	.1	*	.7	.7	.8	1.7	1.2	.5	.0	.0	5.8	
	TOT %	3.8	3.8	6.7	9.5	10.1	11.4	9.2	4.3	.0	1.3	60.2	
TOT OBS													
TOT PCT													
		6.3	7.2	12.3	15.6	16.0	17.9	15.4	7.5	.0	1.9	100.0	1678



## MARCH

PERIOD: (PRIMARY) 1898-1971  
(OVER-ALL) 1856-1971

AREA 0012 CAPE NELSON  
38.45 141.1E

TABLE 10

PERCENT FREQUENCY OF CEILING HEIGHTS (FEET, NH > 4/8) AND  
OCCURRENCE OF NH < 5/8 BY HOUR

HOUR (GMT)	000	150	300	600	1000	2000	3500	5000	6500	8000+	TOTAL	NH < 5/8 ANY HGT	TOTAL OBS
00003	149	299	599	999	1999	3499	4999	6499	7999		47.0	53.0	230
06009	.4	.0	.4	5.7	20.9	12.6	3.9	1.7	1.3	.0	39.7	60.3	209
12015	.0	.5	.0	7.2	14.8	11.0	4.3	1.4	.0	.5	33.0	67.0	176
18021	.6	.0	.6	5.7	10.2	8.5	5.7	.0	.6	1.1	47.3	52.7	182
TOT	2	1	3	47	129	91	39	12	5	6	335	467	797
PCT	.3	.1	.4	5.9	16.2	11.4	4.9	1.5	.6	.8	42.0	58.0	100.0

TABLE 11

PERCENT FREQUENCY VS BY (NM) BY HOUR

HOUR (GMT)	<1/2	1/2<1	1<2	2<5	5<10	10+	TOTAL OBS
00003	.4	2.3	.4	2.5	36.2	58.3	528
06009	.2	2.2	.7	2.0	32.4	62.4	410
12015	.0	2.3	.2	1.4	40.7	55.3	427
18021	.8	1.7	.6	.8	34.2	62.0	363
TOT	6	37	8	30	622	1025	1728
PCT	.3	2.1	.5	1.7	36.0	59.3	100.0

TABLE 12

CUMULATIVE PCT FREQ OF RANGES OF VS BY (NM) AND/OR  
CEILING HGT (FEET, NH > 4/8) BY HOUR

HOUR (GMT)	<150 <50YD	<600 <1	<1000 <5	1000+ AND 5+	NH < 5/8 AND 5+	TOTAL OBS
00003	.4	.9	9.8	38.4	51.8	224
06009	.0	1.0	10.1	32.8	57.1	198
12015	.6	1.2	8.4	26.9	64.7	167
18021	.0	1.7	6.9	43.7	49.4	174
TOT	2	9	68	272	473	763
PCT	.3	1.2	8.9	35.6	55.4	100.0

TABLE 13

PERCENT FREQUENCY OF RELATIVE HUMIDITY BY TEMP

TEMP F	0-29	30-39	40-49	50-59	60-69	70-79	80-89	90-100	TOTAL OBS	PCT FREQ
75/79	.0	.0	.1	.0	.0	.1	.0	.0	2	.2
70/74	.0	.0	.0	.3	.9	.5	.4	.1	21	2.2
65/69	.0	.0	.1	.7	1.9	4.0	3.9	1.7	117	12.4
60/64	.0	.0	.2	1.7	8.7	16.3	18.8	5.7	484	51.4
55/59	.0	.0	.0	2.0	8.9	10.5	8.4	3.3	312	33.2
50/54	.0	.0	.0	.0	.3	.1	.1	.5	5	.5
TOTAL	0	0	4	45	192	299	298	103	941	100.0
PCT	.0	.0	.4	4.8	20.4	31.8	31.7	10.9		

TABLE 14

PERCENT FREQUENCY OF WIND DIRECTION BY TEMP

N	NE	E	SE	S	SW	W	NW	VAR	CALM
.0	.1	.0	.0	.0	.0	.0	.0	.0	.1
.5	.3	.5	.1	.0	.1	.2	.4	.0	.1
2.4	2.0	2.2	1.2	.3	.7	1.6	1.2	.0	.7
2.7	3.5	6.3	8.1	7.3	7.5	10.7	4.6	.0	.6
.9	.6	1.4	6.1	9.5	9.2	4.2	1.1	.0	.1
.0	.0	.0	.0	.2	.2	.2	.0	.0	.0
6.5	6.6	10.5	15.5	17.3	17.7	17.0	7.4	.0	1.7

TABLE 15

MEANS, EXTREMES AND PERCENTILES OF TEMP (DEG F) BY HOUR

HOUR (GMT)	MAX	99%	95%	50%	5%	1%	MIN	MEAN	TOTAL OBS
00003	80	73	69	61	56	55	48	61.7	874
06009	79	73	69	62	57	54	51	62.4	521
12015	71	70	67	60	55	52	49	60.6	607
18021	73	69	67	60	55	53	48	60.1	480
TOT	80	72	68	61	56	53	48	61.3	2432

TABLE 16

PERCENT FREQUENCY OF RELATIVE HUMIDITY BY HOUR

HOUR (GMT)	0-29	30-59	60-69	70-79	80-89	90-100	MEAN	TOTAL OBS
00003	.0	6.8	22.1	29.9	29.2	12.1	77	281
06009	.0	8.1	19.2	35.9	27.8	9.0	76	234
12015	.0	2.2	21.5	35.5	32.5	8.3	77	228
18021	.0	3.7	17.4	25.6	38.8	14.6	79	219
TOT	0	51	194	305	306	106	77	962

PERIOD: (PRIMARY) 1898-1971  
(OVER-ALL) 1856-1971

MARCH

AREA 0012 CAPE NELSON  
38.45 141.1E

TABLE 17

PCT FREQ OF AIR TEMPERATURE (DEG F) AND THE OCCURRENCE OF FOG (WITHOUT PRECIPITATION)  
VS AIR-SEA TEMPERATURE DIFFERENCE (DEG F)

AIR-SEA TMP DIF	45 48	49 52	53 56	57 60	61 64	65 68	69 72	73 76	77 80	TOT	N FOG	NO FOG
17/19	.0	.0	.0	.0	.0	.0	.0	.1	.1	1	.0	.1
14/16	.0	.0	.0	.0	.0	.0	.1	.1	.1	2	.1	.1
11/13	.0	.0	.0	.0	.0	.0	.1	.1	.1	1	.0	.1
9/10	.0	.0	.0	.0	.0	.0	.2	.0	.0	2	.0	.2
7/8	.0	.0	.0	.0	.3	.5	.7	.1	.0	20	.0	1.5
6	.0	.0	.0	.0	.3	.3	.4	.2	.0	15	.0	1.2
5	.0	.0	.0	.0	.5	.8	.8	.0	.0	27	.2	1.9
4	.0	.0	.0	.0	.8	1.9	.2	.0	.0	38	.0	2.9
3	.0	.0	.0	.2	1.7	2.2	.3	.0	.0	57	.2	4.2
2	.0	.0	.0	.8	3.4	2.7	.1	.0	.0	90	.3	6.6
1	.0	.0	.0	1.5	6.5	2.1	.0	.0	.0	131	.5	9.5
0	.0	.0	.2	3.5	8.5	1.2	.0	.0	.0	173	.4	12.9
-1	.0	.0	.4	6.0	7.5	.3	.0	.0	.0	184	.5	13.7
-2	.0	.0	.5	8.6	4.9	.1	.0	.0	.0	183	.5	13.6
-3	.0	.0	1.1	9.6	2.3	.2	.0	.0	.0	171	.3	12.8
-4	.0	.0	1.2	5.8	.8	.1	.0	.0	.0	102	.0	7.9
-5	.0	.2	.9	3.5	.4	.1	.0	.0	.0	65	.0	5.1
-6	.0	.0	.6	.7	.1	.0	.0	.0	.0	18	.0	1.4
-7/-8	.0	.1	.3	.6	.1	.0	.0	.0	.0	14	.0	1.1
-9/-10	.1	.0	.0	.0	.1	.0	.0	.0	.0	2	.0	.2
-11/-13	.1	.0	.0	.0	.0	.0	.0	.0	.0	1	.0	.1
-14/-16	.0	.0	.0	.1	.0	.0	.0	.0	.0	1	.0	.1
TOTAL	2	3	67	531	496	161	32	6	2	1300	37	1263
PCT	.2	.2	5.2	40.8	38.2	12.4	2.5	.5	.2	100.0	2.8	97.2

PERIOD: (OVER-ALL) 1963-1971

TABLE 18

PCT FREQ OF WIND SPEED (KTS) AND DIRECTION VERSUS SEA HEIGHTS (FT)

HGT	1-3	4-10	11-21	22-33	34-47	48+	PCT	1-3	4-10	11-21	22-33	34-47	48+	PCT
<1	.4	.4	.0	.0	.0	.0	.8	.2	.7	.0	.0	.0	.0	.9
1-2	.3	2.4	.5	.0	.0	.0	3.3	.1	1.9	.7	.0	.0	.0	2.6
3-4	.0	1.7	.8	.0	.0	.0	2.5	.0	.7	1.0	.0	.0	.0	1.7
5-6	.0	.2	.6	.0	.0	.0	.8	.0	.0	1.1	.0	.0	.0	1.1
7	.0	.0	.4	.2	.0	.0	.8	.0	.0	.3	.0	.0	.0	.3
8-9	.0	.0	.6	.2	.0	.0	.2	.0	.0	.0	.0	.0	.0	.0
10-11	.0	.0	.2	.0	.0	.0	.2	.0	.0	.1	.0	.0	.0	.1
12	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
13-16	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
17-19	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
20-22	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
23-25	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
26-32	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
33-40	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
41-48	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
49-60	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
61-70	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
71-86	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
87+	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
TOT PCT	.7	4.9	2.5	.4	.0	.0	8.5	.3	3.2	3.2	.0	.0	.0	6.7

HGT	1-3	4-10	11-21	22-33	34-47	48+	PCT	1-3	4-10	11-21	22-33	34-47	48+	PCT
<1	.2	.6	.0	.0	.0	.0	.8	.2	.8	.0	.0	.0	.0	1.0
1-2	.6	3.1	.4	.0	.0	.0	4.1	.0	2.7	2.7	.0	.0	.0	5.4
3-4	.0	1.1	1.4	.6	.0	.0	3.1	.0	1.1	1.7	.1	.0	.0	2.9
5-6	.0	.5	.9	.2	.0	.0	1.6	.0	.3	.7	.3	.0	.0	1.3
7	.0	.0	.4	.0	.0	.0	.4	.0	.4	.7	.0	.0	.0	1.1
8-9	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
10-11	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
12	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
13-16	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
17-19	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
20-22	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
23-25	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
26-32	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
33-40	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
41-48	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
49-60	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
61-70	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
71-86	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
87+	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
TOT PCT	.8	5.4	3.1	.8	.0	.0	10.0	.2	5.3	5.8	.3	.0	.0	11.7

PERIOD: (OVER-ALL) 1963-1971

MARCH

AREA 0012 CAPE NELSON  
38.45 141.1E

TABLE 18 (CONT)

PCT FREQ OF WIND SPEED (KTS) AND DIRECTION VERSUS SEA HEIGHTS (FT)

HGT	S							SW							PCT
	1-3	4-10	11-21	22-33	34-47	48+	PCT	1-3	4-10	11-21	22-33	34-47	48+	PCT	
<1	.0	.7	.0	.0	.0	.0	.7	.2	.1	.0	.0	.0	.0	.3	
1-2	.0	3.8	.8	.0	.0	.0	4.5	.0	2.3	.4	.0	.0	.0	2.7	
3-4	.0	2.7	2.6	.2	.0	.0	5.5	.0	1.6	6.1	.3	.0	.0	7.9	
5-6	.0	.8	.8	.5	.0	.0	2.0	.0	.8	4.0	.2	.0	.0	4.9	
7	.0	.0	.4	.2	.0	.0	.6	.0	.0	.9	1.9	.0	.0	2.7	
8-9	.0	.0	.2	.0	.0	.0	.2	.0	.0	.7	.4	.0	.0	1.1	
10-11	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.9	.2	.0	1.1	
12	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
13-16	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
17-19	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
20-22	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.2	.0	.2	
23-25	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
26-32	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
33-40	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
41-48	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
49-60	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
61-70	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
71-86	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
87+	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
TOT PCT	.0	7.9	4.7	.8	.0	.0	13.5	.2	4.7	12.1	3.6	.4	.0	21.1	

HGT	N							NW							PCT	TOTAL PCT
	1-3	4-10	11-21	22-33	34-47	48+	PCT	1-3	4-10	11-21	22-33	34-47	48+	PCT		
<1	.0	.4	.4	.0	.0	.0	.9	.3	.4	.2	.0	.0	.0	.9		
1-2	.0	3.3	.0	.0	.0	.0	3.3	.1	1.8	.7	.0	.0	.0	2.6		
3-4	.2	2.2	4.1	.2	.0	.0	6.8	.0	.7	.8	.0	.0	.0	1.5		
5-6	.0	.4	3.1	.0	.0	.0	3.4	.0	.1	.5	.2	.0	.0	.8		
7	.0	.0	1.4	1.4	.0	.0	2.7	.0	.1	.4	.8	.0	.0	1.3		
8-9	.0	.0	.0	1.5	.0	.0	1.5	.0	.0	.0	.1	.0	.0	.1		
10-11	.0	.0	.0	.4	.0	.0	.4	.0	.0	.0	.0	.0	.0	.0		
12	.0	.0	.0	.2	.0	.0	.2	.0	.0	.0	.0	.0	.0	.0		
13-16	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.2	.0	.2		
17-19	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0		
20-22	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0		
23-25	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0		
26-32	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0		
33-40	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0		
41-48	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0		
49-60	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0		
61-70	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0		
71-86	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0		
87+	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0		
TOT PCT	.2	6.3	9.0	3.7	.0	.0	19.2	.4	3.0	2.7	1.3	.0	.0	7.4	98.0	

WIND SPEED (KTS) VS SEA HEIGHT (FT)

HGT	0-3	4-10	11-21	22-33	34-47	48+	PCT	TOT DBS
<1	4.3	4.1	.6	.0	.0	.0	9.0	
1-2	1.3	20.9	6.2	.0	.0	.0	28.4	
3-4	.4	11.6	18.3	1.3	.0	.0	31.6	
5-6	.0	3.0	11.4	1.3	.0	.0	15.7	
7	.0	.6	4.7	4.3	.0	.0	9.7	
8-9	.2	.0	.9	2.2	.0	.0	3.2	
10-11	.0	.0	.2	1.3	.2	.0	1.7	
12	.0	.0	.0	.2	.0	.0	.2	
13-16	.0	.0	.0	.2	.0	.0	.2	
17-19	.0	.0	.0	.0	.0	.0	.0	
20-22	.0	.0	.0	.0	.2	.0	.2	
23-25	.0	.0	.0	.0	.0	.0	.0	
26-32	.0	.0	.0	.0	.0	.0	.0	
33-40	.0	.0	.0	.0	.0	.0	.0	
41-48	.0	.0	.0	.0	.0	.0	.0	
49-60	.0	.0	.0	.0	.0	.0	.0	
61-70	.0	.0	.0	.0	.0	.0	.0	
71-86	.0	.0	.0	.0	.0	.0	.0	
87+	.0	.0	.0	.0	.0	.0	.0	
TOT PCT	6.2	40.2	42.4	10.8	.4	.0	100.0	465

PERIOD: (OVER-ALL) 1949-1971

TABLE 19

PERCENT FREQUENCY OF WAVE HEIGHT (FT) VS WAVE PERIOD (SECONDS)

PERIOD (SEC)	<1	1-2	3-4	5-6	7	8-9	10-11	12	13-16	17-19	20-22	23-25	26-32	33-40	41-48	49-60	61-70	71-86	87+	TOTAL	MEAN HGT
<6	1.1	6.9	9.3	5.1	1.6	.7	.4	.0	.1	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	178	4
6-7	.0	.4	5.4	6.5	6.7	2.8	.8	.6	.1	.1	.0	.0	.0	.0	.0	.0	.0	.0	.0	166	6
8-9	.0	.3	3.1	4.0	5.4	4.7	3.1	1.1	1.1	.4	.0	.0	.0	.0	.0	.0	.0	.0	.0	164	7
10-11	.0	.1	1.0	.7	1.1	2.8	2.3	2.0	2.0	.0	.1	.3	.0	.0	.0	.0	.0	.0	.0	88	10
12-13	.0	.0	.7	.3	.7	.7	.7	.3	.8	.6	.1	.0	.0	.0	.0	.0	.0	.0	.0	35	10
>13	.0	.0	.0	.1	.6	.4	.6	.7	1.0	.1	.1	.0	.1	.0	.0	.0	.0	.0	.0	27	12
INDFT	.6	1.3	1.3	1.0	.6	.6	.7	.3	.1	.0	.1	.0	.0	.1	.0	.0	.0	.0	.0	47	6
TOTAL	12	64	147	125	117	90	61	35	38	9	4	2	1	1	0	0	0	0	0	706	7
PCT	1.7	9.1	20.8	17.7	16.6	12.7	8.6	5.0	5.4	1.3	.6	.3	.1	.1	.0	.0	.0	.0	.0	100.0	

PERIOD: (PRIMARY) 1901-1969  
(OVER-ALL) 1857-1969

APRIL

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38.45 141.0E

TABLE 1

PERCENT FREQUENCY OF WEATHER OCCURRENCE BY WIND DIRECTION

WIND DIR	PRECIPITATION TYPE							OTHER WEATHER PHENOMENA							
	RAIN	RAIN SHHR	DRZL	FRZG PCPN	SNOW	OTHER FRZN PCPN	HAIL	PCPN AT DB TIME	PCPN PAST HOUR	THOR LTNG	FOG WD PCPN	FOG WD PCPN PAST HR	SMOKE HAZE	SPRAY BLWG DUST SNOW	NO SIG WEA
N	2.6	1.5	.7	.0	.0	.0	.0	4.9	.7	.0	2.2	.0	2.2	.0	89.9
NE	5.3	.0	.0	.0	.0	.0	.0	5.3	.0	1.0	1.9	.0	.5	.0	91.3
E	.5	2.9	1.0	.0	.0	.0	.0	4.4	.0	1.0	1.5	.0	1.5	.0	91.8
SE	1.6	2.3	2.1	.0	.0	.0	.0	6.0	.3	.0	2.1	.0	2.1	.0	89.6
S	3.1	7.1	3.1	.0	.0	.0	.0	12.6	2.4	.6	3.1	.0	.0	.0	81.4
SW	6.2	10.7	2.4	.0	.0	.0	.0	19.2	3.7	.4	.4	.0	.0	.0	76.2
W	4.4	11.8	2.0	.0	.0	.0	.0	18.1	4.9	1.7	.0	.0	.7	.0	75.8
NW	3.3	8.6	1.6	.0	.0	.0	.0	13.5	2.4	.6	1.3	.0	2.2	.0	80.0
VAR	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
CALM	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	14.3	.0	85.7
TOT PCT	3.7	6.9	1.8	.0	.0	.0	.0	12.3	2.3	.7	1.4	.0	1.0	.0	82.5
TOT OBS:	1240														

TABLE 2

PERCENT FREQUENCY OF WEATHER OCCURRENCE BY HOUR

HOUR (GMT)	PRECIPITATION TYPE							OTHER WEATHER PHENOMENA							
	RAIN	RAIN SHWR	DRZL	FRZG PCPN	SNOW	OTHER FRZN PCPN	HAIL	PCPN AT DB TIME	PCPN PAST HOUR	THOR LTNG	FOG WD PCPN	FOG WD PCPN PAST HR	SMOKE HAZE	SPRAY BLWG DUST BLWG SNOW	NO SIG WEA
0000	2.2	7.0	1.1	.0	.0	.0	.0	10.2	2.4	.3	1.6	.0	1.6	.0	83.9
0600	5.2	6.6	.7	.0	.0	.0	.0	12.5	1.7	.3	1.4	.0	1.0	.0	83.4
1200	3.5	5.5	3.2	.0	.0	.0	.0	12.0	2.6	1.5	1.5	.0	.9	.0	82.2
1800	3.9	7.8	2.1	.0	.0	.0	.0	13.8	2.1	.7	.7	.0	1.1	.0	81.6
TOT PCT TOT OBS:	3.6 1287	6.7	1.8	.0	.0	.0	.0	12.0	2.3	.7	1.3	.0	1.2	.0	82.8

TABLE 3

PERCENTAGE FREQUENCY OF WIND DIRECTION BY SPEED AND BY HOUR

WIND DIR	WIND SPEED (KNOTS)							TOTAL OBS	PCT FREQ	MEAN SPD	HOUR (GMT)							
	0-3	4-10	11-21	22-33	34-47	48+					00	03	06	09	12	15	18	21
N	.6	4.2	4.7	.8	.2	.0		10.6	12.6		13.9	11.8	8.6	4.5	7.7	7.1	12.4	18.2
NE	.7	4.1	3.4	.3	.0	.0		8.5	10.0		8.1	8.7	5.6	7.8	7.2	13.5	9.3	12.7
E	1.0	4.7	3.4	.2	.0	.0		9.4	10.1		8.9	9.3	8.6	9.8	10.3	11.7	9.1	6.4
SE	.4	4.3	3.7	.7	.1	.0		9.2	11.7		9.3	8.0	10.1	16.4	10.9	8.0	7.6	6.4
S	.7	5.2	4.9	2.3	.4	.0		13.6	14.3		13.3	11.9	15.1	5.7	17.2	13.8	11.3	17.3
SW	.9	5.8	6.6	2.9	1.0	.0		17.3	15.3		17.5	17.3	18.6	18.9	18.5	15.8	15.9	12.7
W	.7	5.3	6.6	3.6	1.2	.0		17.4	16.4		15.3	16.4	19.0	25.4	17.3	14.1	20.2	11.8
NW	.3	4.5	5.2	2.4	.3	.0		12.7	14.8		12.8	14.9	13.6	8.2	9.1	13.6	12.9	12.7
VAR	.0	.0	.0	.0	.0	.0		.0	.0		.0	.0	.0	.0	.0	.0	.0	.0
CALM	1.5							1.5	.0		.8	1.7	.8	3.3	1.8	2.3	1.3	1.8
TOT OBS	144	818	824	280	69	2	2137		13.5		369	356	365	61	333	218	380	55
TOT PCT	6.7	38.3	38.6	13.1	3.2	.1	100.0				100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0

TABLE 3A

WIND DIR	WIND SPEED (KNOTS)					TOTAL OBS	PCT FREQ	MEAN SPD	HOUR (GMT)				
	0-6	7-16	17-27	28-40	41+				00	06	12	18	21
N	2.2	5.4	2.7	.3	.0		10.6	12.6	12.9	8.0	7.4	13.1	
NE	2.9	4.5	1.1	.0	.0		8.5	10.0	8.4	5.9	9.7	9.7	
E	3.0	4.7	1.5	.1	.0		9.4	10.1	9.1	8.8	10.8	8.8	
SE	2.2	5.0	1.7	.3	.0		9.2	11.7	8.7	11.0	9.8	7.5	
S	2.7	6.4	2.9	1.2	.3		13.6	14.3	12.6	13.7	15.8	12.1	
SW	3.3	7.3	4.2	2.1	.3		17.3	15.3	17.4	18.6	17.5	15.5	
W	2.3	7.4	5.0	2.5	.2		17.4	16.4	15.9	20.0	16.1	19.1	
NW	2.1	5.5	3.8	1.2	.1		12.7	14.8	13.8	12.8	10.9	12.9	
VAR	.0	.0	.0	.0	.0		.0	.0	.0	.0	.0	.0	
CALM	1.5						1.5	.0					
TOT OBS	474	986	490	165	22	2137		13.5	1.2	1.2	2.0	1.4	
TOT PCT	22.2	46.1	22.9	7.7	1.0	100.0			725	426	551	435	

PERIOD: (PRIMARY) 1901-1969  
(OVER-ALL) 1857-1969

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38.45 141.0E

TABLE 4

PERCENTAGE FREQUENCY OF WIND SPEED BY HOUR (GMT)

HOUR	CALM	1-3	4-10	WIND SPEED (KNOTS)			48+	MEAN	PCT FREQ	TOTAL OBS
				11-21	22-33	34-47				
00003	1.2	5.2	37.4	38.1	14.9	3.2	.0	13.8	100.0	725
06009	1.2	4.9	38.7	37.1	12.7	5.4	.0	14.1	100.0	426
12015	2.0	5.6	37.7	40.3	17.0	2.0	.4	13.1	100.0	551
18021	1.4	5.3	40.0	38.6	12.0	2.8	.0	12.9	100.0	435
TOT	31	113	818	824	780	69		2	13.5	2137
PCT	1.5	5.3	38.3	38.6	13.1	3.2	.1		100.0	

TABLE 5

PCT FREQ OF TOTAL CLOUD AMOUNT (EIGHTHS)  
BY WIND DIRECTION

WIND DIR	0-2	3-4	5-7	8 & OBSCD	TOTAL OBS	MEAN CLOUD COVER
N	4.4	.8	3.7	2.0		4.2
NE	1.8	.6	1.4	1.5		4.5
E	4.3	.6	1.6	1.4		3.4
SE	1.8	1.0	4.3	1.4		5.3
S	1.7	1.7	7.2	4.0		5.9
SW	1.9	3.9	9.3	4.1		5.6
W	2.7	3.4	8.8	6.1		5.6
NW	2.2	2.5	4.2	2.8		5.1
VAR	.0	.0	.0	.0		.0
CALM	.0	.4	.2	.2		5.7
TOT OBS	119	85	232	133	569	5.2
TOT PCT	20.9	14.9	40.8	23.4	100.0	

TABLE 6

PERCENTAGE FREQUENCY OF CEILING HEIGHTS (FT, NH >4/8)  
AND OCCURRENCE OF NH <5/8 BY WIND DIRECTION

	000	150	300	400	1000	2000	3500	5000	6500	8000+	NH <5/8	TOTAL
	149	299	599	999	1999	3499	4999	6499	7999		ANY HGT	OBS
N	.0	.0	.0	.2	.9	.6	.9	.4	.4	.2	7.4	
NE	.0	.0	.2	.5	.2	.4	.2	.0	.0	.2	3.8	
E	.0	.0	.0	.5	.8	.7	.2	.0	.0	.0	5.8	
SE	.0	.0	.4	.2	.2	.8	.4	.2	.0	.0	4.5	
S	.2	.1	.0	2.0	4.0	1.9	.5	.8	.1	.1	4.8	
SW	.0	.0	.4	1.5	5.4	2.5	1.0	.2	.2	.0	7.9	
W	.2	.0	.2	3.9	5.4	1.5	1.4	.3	.0	.2	8.0	
NW	.0	.0	.2	.7	2.5	.6	.2	.7	.2	.2	6.5	
VAR	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
CALM	.0	.0	.0	.0	.4	.0	.0	.0	.0	.0	.4	
TOT OBS	2	1	7	53	123	52	27	15	5	5	279	569
TOT PCT	.4	.2	1.2	9.3	21.6	9.1	4.7	2.6	.9	.9	49.0	100.0

TABLE 7

CUMULATIVE PCT FREQ OF SIMULTANEOUS OCCURRENCE  
OF CEILING HEIGHT (NH >4/8) AND VSBY (NM)

CEILING (FEET)	VSBY (NM)							
	>10	>5	>2	>1	>1/2	>1/4	>50YD	>0
>6500	1.5	1.7	1.7	1.7	1.7	1.7	1.7	1.7
>6000	3.5	4.4	4.4	4.4	4.4	4.4	4.4	4.4
>5500	7.1	9.1	9.1	9.1	9.1	9.1	9.1	9.1
>5000	15.5	18.2	18.2	18.2	18.2	18.2	18.2	18.2
>4500	34.0	39.7	39.7	39.7	39.7	39.7	39.7	39.7
>4000	40.0	48.0	48.3	48.5	48.6	48.6	48.6	48.6
>3500	40.2	49.0	49.3	49.7	49.8	49.8	49.8	49.8
>3000	40.4	49.2	49.5	49.8	50.0	50.0	50.0	50.0
>2500	40.4	49.2	49.7	50.0	50.3	50.3	50.3	50.3
TOTAL	239	291	294	296	298	298	298	298

TOTAL NUMBER OF OBS: 592

PCT FREQ NH <5/8: 49.7

TABLE 7A

PERCENTAGE FREQ OF LOW CLOUDS (EIGHTHS)

	0	1	2	3	4	5	6	7	8	OBSCD	TOTAL OBS
	9.8	10.3	11.0	8.8	8.4	8.7	10.7	13.0	19.2	.1	692



PERIOD: (PRIMARY) 1901-1969  
(OVER-ALL) 1857-1969

APRIL

AREA 0012 CAPE NELSON  
38.45 141.0E

TABLE 8

PERCENT FREQ OF WIND DIRECTION VS OCCURRENCE OR NON-OCCURRENCE OF  
PRECIPITATION WITH VARYING VALUES OF VISIBILITY

VSBY (NM)		N	NE	E	SE	S	SW	W	NW	VAR	CALM	PCT	TOTAL OBS
<1/2	PCP	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
	NO PCP	.0	.0	*	.1	.0	.0	.0	.0	.0	.0	.0	.2
	TOT %	.0	.0	*	.1	.0	.0	.0	.0	.0	.0	.0	.2
1/2<1	PCP	.0	.0	.0	.2	.3	.3	.2	.1	.0	.0	.0	1.1
	NO PCP	.2	.1	.0	*	.4	.1	.0	.2	.0	.0	.0	1.0
	TOT %	.2	.1	.0	.2	.7	.4	.2	.3	.0	.0	.0	2.2
1<2	PCP	.0	.0	.0	.1	.0	.0	.0	.1	.0	.0	.0	.2
	NO PCP	.2	*	*	.0	.0	.0	.1	.2	.0	.0	.1	.6
	TOT %	.2	*	*	.1	.0	.0	.1	.3	.0	.0	.1	.8
2<5	PCP	.0	.0	.0	.0	.1	*	.1	.0	.0	.0	.0	.2
	NO PCP	.1	.1	.2	.0	.1	*	.1	.1	.0	.0	.0	.7
	TOT %	.1	.1	.2	.0	.2	.1	.2	.1	.0	.0	.0	.9
5<10	PCP	.3	.4	.4	.2	1.3	2.2	2.5	1.0	.0	.0	.0	8.3
	NO PCP	3.8	3.6	3.2	2.6	4.7	5.5	6.1	4.8	.0	.2	.2	34.6
	TOT %	4.1	4.0	3.6	2.8	6.0	7.8	8.6	5.8	.0	.2	.2	42.9
10+	PCP	.2	.0	.0	*	.2	1.0	.6	.5	.0	.0	.0	2.5
	NO PCP	6.0	4.1	4.5	4.5	7.4	9.3	8.8	5.7	.0	.2	.2	50.6
	TOT %	6.2	4.1	4.5	4.5	7.6	10.3	9.3	6.3	.0	.2	.2	53.1
TOT OBS													
TOT PCT													
		10.8	8.3	8.3	7.8	14.5	18.5	18.4	12.7	.0	.6	100.0	1240

TABLE 9

PERCENT FREQ OF WIND DIRECTION VS WIND SPEED  
WITH VARYING VALUES OF VISIBILITY

VSBY (NM)	SPD KTS	N	NE	E	SE	S	SW	W	NW	VAR	CALM	PCT	TOTAL OBS
<1/2	0-3	.1	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.1
	4-10	.0	.0	*	.1	.0	.0	.0	.0	.0	.0	.0	.1
	11-21	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
	22+	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
	TOT %	.1	.0	*	.1	.0	.0	.0	.0	.0	.0	.0	.2
1/2<1	0-3	.1	.0	.0	.0	.0	.1	.0	.0	.0	.0	.0	.2
	4-10	*	*	.0	.0	.1	.1	.0	.1	.0	.0	.0	.3
	11-21	.0	.0	.0	.0	.2	.1	.1	.2	.0	.0	.0	.6
	22+	.1	*	.0	.2	.4	*	.1	.0	.0	.0	.0	.8
	TOT %	.2	.1	.0	.2	.6	.4	.2	.2	.0	.0	.0	1.9
1<2	0-3	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.1	.1
	4-10	.1	.0	.0	.0	.1	.0	.0	.1	.0	.0	.0	.2
	11-21	.1	.1	*	.1	*	.1	.1	.1	.0	.0	.0	.6
	22+	.0	.0	.0	.0	.1	.0	.0	.1	.0	.0	.0	.1
	TOT %	.2	.1	*	.1	.2	.1	.1	.2	.0	.0	.1	1.1
2<5	0-3	.0	*	*	.0	.0	.0	.0	.0	.0	.0	.0	.1
	4-10	.1	.2	.2	.0	.1	*	.2	.1	.0	.0	.0	.8
	11-21	.0	.1	.1	.2	.1	*	.0	.0	.0	.0	.0	.4
	22+	.0	.0	.0	.0	.2	.1	.2	*	.0	.0	.0	.5
	TOT %	.1	.3	.4	.2	.3	.1	.3	.1	.0	.0	.0	1.8
5<10	0-3	.3	.4	.5	.1	.3	.3	.1	.2	.0	.2	.2	2.3
	4-10	1.2	1.9	1.8	.9	2.1	1.8	1.7	1.7	.0	.0	.0	13.1
	11-21	2.0	1.3	1.0	1.5	1.7	2.7	2.9	1.9	.0	.0	.0	15.1
	22+	.3	.0	.2	.1	1.4	2.2	3.0	1.5	.0	.0	.0	8.7
	TOT %	3.7	3.7	3.5	2.6	5.5	7.0	7.7	5.3	.0	.2	.2	39.2
10+	0-3	.3	.4	.4	.1	.3	.6	.5	.1	.0	.0	.0	3.3
	4-10	3.0	2.4	2.7	3.0	3.3	3.8	3.1	2.3	.0	.0	.0	23.7
	11-21	2.7	1.8	2.0	1.8	3.1	4.3	3.7	2.5	.0	.0	.0	21.8
	22+	.2	.0	.1	.2	1.2	1.9	2.2	1.2	.0	.0	.0	7.1
	TOT %	6.2	4.6	5.2	5.2	7.9	10.6	9.5	6.1	.0	.0	.0	55.8
TOT OBS													
TOT PCT													
		10.4	8.7	9.1	8.4	14.5	18.2	17.8	12.1	.0	.9	100.0	1415

APRIL

PERIOD: (PRIMARY) 1901-1969  
(OVER-ALL) 1857-1969AREA 0012 CAPE NELSON  
38.45 141.0E

TABLE 10

PERCENT FREQUENCY OF CEILING HEIGHTS (FEET, NH >4/8) AND  
OCCURRENCE OF NH <5/8 BY HOUR

HOUR (GMT)	000 149	150 299	300 599	600 999	1000 1999	2000 3499	3500 4999	5000 6499	6500 7999	8000+	TOTAL	NH <5/8 ANY HGT	TOTAL OBS
00003	.6	.0	.0	9.2	25.9	9.8	3.4	3.4	.6	.0	52.9	47.1	174
06009	.6	.6	1.2	8.3	19.5	11.2	4.7	2.4	1.8	1.2	51.5	48.5	169
12015	.0	.0	2.0	8.7	18.7	4.7	5.3	.7	.0	.7	40.7	59.3	150
18021	.0	.0	1.4	7.2	15.1	7.9	4.3	3.6	.7	1.4	41.7	58.3	139
TOT	2	1	7	53	127	54	28	16	5	5	298	334	632
PCT	.3	.2	1.1	8.4	20.1	8.5	4.4	2.5	.8	.8	47.2	52.8	100.0

TABLE 11

PERCENT FREQUENCY VSBY (NM) BY HOUR

HOUR (GMT)	<1/2	1/2<1	1<2	2<5	5<10	10+	TOTAL OBS
00003	.5	2.1	1.2	1.2	39.4	55.7	429
06009	.3	1.5	1.5	2.7	36.5	57.4	329
12015	.0	2.1	.8	2.1	42.2	52.9	384
18021	.0	1.6	.9	.9	38.8	57.8	320
TOT	3	27	16	25	575	816	1462
PCT	.2	1.8	1.1	1.7	39.3	55.8	100.0

TABLE 12

CUMULATIVE PCT FREQ OF RANGES OF VSBY (NM) AND/OR  
CEILING HGT (FEET, NH >4/8) BY HOUR

HOUR (GMT)	<150 <500	<600 <1	<1000 <5	1000+ AND 5+	NH <5/8 AND 5+	TOTAL OBS
00003	.6	.6	10.4	46.0	43.6	163
06009	.6	2.5	11.9	43.4	44.7	159
12015	.0	2.8	11.3	31.7	57.0	142
18021	.0	1.6	9.4	35.9	54.7	128
TOT	2	11	64	235	293	592
PCT	.3	1.9	10.8	39.7	49.5	100.0

TABLE 13

PERCENT FREQUENCY OF RELATIVE HUMIDITY BY TEMP

TEMP F	0-29	30-39	40-49	50-59	60-69	70-79	80-89	90-100	TOTAL OBS	PCT FREQ
70/74	.0	.0	.0	.4	.1	.1	.0	.0	5	.6
65/69	.0	.0	.1	.3	.3	2.2	1.9	.5	41	5.2
60/64	.0	.0	.3	.8	4.5	13.0	13.7	5.9	299	38.0
55/59	.0	.0	.3	1.7	8.9	16.0	17.0	5.2	386	49.1
50/54	.0	.0	.0	.1	2.2	1.7	1.5	1.5	55	7.0
TOTAL	0	0	5	25	125	259	269	103	786	100.0
PCT	.0	.0	.6	3.2	15.9	33.0	34.2	13.1		

TABLE 14

PERCENT FREQUENCY OF WIND DIRECTION BY TEMP

	N	NE	E	SE	S	SW	W	NW	VAR	CALM
70/74	.3	.0	.0	.0	.0	.1	.1	.1	.0	.0
65/69	1.3	1.0	.6	.2	.0	.3	.3	1.5	.0	.0
60/64	5.4	3.5	4.3	2.4	2.4	4.5	7.8	7.3	.0	.5
55/59	3.3	1.7	3.7	4.2	9.8	12.2	10.6	3.2	.0	.4
50/54	.0	.4	.6	.2	2.2	2.3	1.2	*	.0	.0
TOTAL	10.3	6.7	9.1	7.1	14.5	19.4	19.9	12.1	.0	.9

TABLE 15

MEANS, EXTREMES AND PERCENTILES OF TEMP (DEG F) BY HOUR

HOUR (GMT)	MAX	99%	95%	50%	5%	1%	MIN	MEAN	TOTAL OBS
00003	76	69	66	59	54	52	50	59.7	709
06009	73	69	66	60	54	51	49	60.1	430
12015	69	66	64	58	54	51	49	58.5	561
18021	71	65	64	58	54	52	50	58.4	442
TOT	76	68	65	59	54	52	49	59.2	2142

TABLE 16

PERCENT FREQUENCY OF RELATIVE HUMIDITY BY HOUR

HOUR (GMT)	0-29	30-39	40-49	50-59	60-69	70-79	80-89	90-100	MEAN	TOTAL OBS
00003	.0	3.5	16.7	34.4	32.6	12.8	78	227		
06009	.0	7.2	19.1	38.1	24.7	10.8	76	194		
12015	.0	1.9	17.0	30.1	38.8	12.1	79	206		
18021	.0	3.3	11.0	30.2	37.9	17.6	80	182		
TOT	0	32	130	269	271	107	78	809		

APRIL

PERIOD: (PRIMARY) 1901-1969  
(OVER-ALL) 1857-1969AREA 0012 CAPE NELSON  
38.45 141.06

TABLE 17

PCT FREQ OF AIR TEMPERATURE (DEG F) AND THE OCCURRENCE OF FOG (WITHOUT PRECIPITATION)  
VS AIR-SEA TEMPERATURE DIFFERENCE (DEG F)

AIR-SEA TMP DIF	49 52	53 56	57 60	61 64	65 68	69 72	73 76	TOT	W FOG	WD FOG
11/13	.0	.0	.0	.0	.0	.1	.2	3	.0	.3
9/10	.0	.0	.2	.1	.0	.1	.0	4	.0	.4
7/8	.0	.0	.0	.1	.0	.4	.0	7	.0	.6
6	.0	.0	.0	.1	.4	.1	.0	6	.0	.5
5	.0	.0	.0	.1	.9	.0	.0	11	.1	.9
4	.0	.1	.1	.9	1.2	.2	.0	27	.2	2.2
3	.0	.1	.5	2.3	1.2	.0	.0	46	.1	4.0
2	.1	.1	.5	3.8	.8	.0	.0	59	.1	5.2
1	.0	.0	2.7	5.9	.3	.0	.0	99	.3	8.6
0	.1	.7	7.1	5.1	.0	.0	.0	145	.0	13.0
-1	.0	1.3	7.7	3.4	.2	.0	.0	141	.1	12.6
-2	.0	3.3	8.1	2.4	.0	.0	.0	154	.4	13.4
-3	.0	2.2	9.6	.9	.0	.0	.0	142	.0	12.7
-4	.4	3.4	4.8	.4	.0	.0	.0	100	.1	8.9
-5	.2	4.4	2.4	.2	.0	.0	.0	80	.1	7.1
-6	.2	2.1	.7	.0	.0	.0	.0	33	.0	3.0
-7/-8	.5	2.7	.5	.1	.0	.0	.0	43	.0	3.9
-9/-10	.3	.6	.4	.0	.0	.0	.0	14	.0	1.3
-11/-13	.1	.0	.0	.0	.0	.0	.0	1	.0	.1
TOTAL	20		507		54		2	1115	1.4	1099
PCT	1.8	21.1	45.5	25.7	4.8	.9	.2	100.0	1.4	98.6

PERIOD: (OVER-ALL) 1963-1969

TABLE 18

PCT FREQ OF WIND SPEED (KTS) AND DIRECTION VERSUS SEA HEIGHTS (FT)

HGT	1-3	4-10	11-21	22-33	34-47	48+	PCT	1-3	4-10	11-21	22-33	34-47	48+	PCT
<1	.2	.4	.0	.0	.0	.0	.7	.0	.2	.0	.0	.0	.0	.2
1-2	.2	2.9	.5	.0	.0	.0	3.7	.0	.8	.5	.0	.0	.0	1.3
3-4	.0	.9	2.7	.0	.0	.0	3.7	.0	.1	2.2	.0	.0	.0	2.3
5-6	.0	.0	1.5	.0	.0	.0	1.5	.0	.2	.0	.0	.0	.0	.2
7	.0	.0	.2	.0	.0	.0	.2	.0	.0	.0	.0	.0	.0	.0
8-9	.0	.0	.0	.2	.0	.0	.2	.0	.0	.0	.0	.0	.0	.0
10-11	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
12	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
13-16	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
17-19	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
20-22	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
23-25	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
26-32	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
33-40	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
41-48	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
49-60	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
61-70	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
71-86	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
87+	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
TOT PCT	.5	4.3	4.9	.2	.0	.0	9.9	.0	1.4	2.7	.0	.0	.0	4.1

HGT	1-3	4-10	11-21	22-33	34-47	48+	PCT	1-3	4-10	11-21	22-33	34-47	48+	PCT
<1	.0	.5	.2	.0	.0	.0	.7	.1	.3	.0	.0	.0	.0	.4
1-2	.2	2.7	.0	.0	.0	.0	3.0	.0	1.8	.8	.0	.0	.0	2.6
3-4	.0	.9	.2	.0	.0	.0	1.2	.0	.4	1.1	.0	.0	.0	1.5
5-6	.0	.2	1.9	.5	.0	.0	2.5	.0	.8	1.7	.6	.0	.0	3.0
7	.0	.0	.5	.5	.0	.0	1.0	.0	.0	.6	.0	.0	.0	.6
8-9	.0	.0	.2	.0	.0	.0	.2	.0	.2	.1	.0	.0	.0	.3
10-11	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.1	.0	.0	.1
12	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
13-16	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
17-19	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
20-22	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
23-25	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
26-32	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
33-40	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
41-48	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
49-60	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
61-70	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
71-86	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
87+	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
TOT PCT	.2	4.3	3.0	1.0	.0	.0	8.6	.1	3.5	4.3	.6	.0	.0	8.5

PERIOD: (OVER-ALL) 1963-1969

APRIL

AREA 0012 CAPE NELSON  
38.45 141.0E

TABLE 18 (CONT)

PCT FREQ OF WIND SPEED (KTS) AND DIRECTION VERSUS SEA HEIGHTS (FT)

HGT	S							PCT	SW							PCT
	1-3	4-10	11-21	22-33	34-47	48+			1-3	4-10	11-21	22-33	34-47	48+		
<1	.4	1.4	.0	.0	.0	.0		1.8	.1	1.3	.0	.0	.0	.0		1.4
1-2	.0	1.1	1.3	.0	.0	.0		2.4	.7	3.5	1.6	.0	.0	.0		5.9
3-4	.0	2.0	3.5	.0	.0	.0		5.4	.0	.9	2.2	.6	.0	.0		3.7
5-6	.0	.0	2.5	.6	.0	.0		3.2	.0	.3	1.2	1.4	.2	.0		3.2
7	.0	.0	.4	.7	.4	.0		1.5	.0	.0	.7	.6	1.1	.0		2.5
8-9	.0	.0	.0	.4	.0	.0		.4	.0	.0	.5	.4	.0	.0		.9
10-11	.0	.0	.0	.6	.0	.0		.6	.0	.0	.1	.3	.5	.0		.9
12	.0	.0	.0	.0	.0	.0		.0	.1	.0	.0	.0	.1	.0		.1
13-16	.0	.0	.0	.0	.0	.0		.0	.0	.0	.0	.0	.0	.0		.0
17-19	.0	.0	.0	.0	.0	.0		.0	.0	.1	.0	.0	.0	.0		.1
20-22	.0	.0	.0	.0	.0	.0		.0	.0	.0	.0	.0	.1	.0		.1
23-25	.0	.0	.0	.0	.0	.0		.0	.0	.0	.0	.0	.0	.0		.0
26-32	.0	.0	.0	.0	.0	.0		.0	.0	.0	.0	.0	.0	.0		.0
33-40	.0	.0	.0	.0	.0	.0		.0	.0	.0	.0	.0	.0	.0		.0
41-48	.0	.0	.0	.0	.0	.0		.0	.0	.0	.0	.0	.0	.0		.0
49-60	.0	.0	.0	.0	.0	.0		.0	.0	.0	.0	.0	.0	.0		.0
61-70	.0	.0	.0	.0	.0	.0		.0	.0	.0	.0	.0	.0	.0		.0
71-86	.0	.0	.0	.0	.0	.0		.0	.0	.0	.0	.0	.0	.0		.0
87+	.0	.0	.0	.0	.0	.0		.0	.0	.0	.0	.0	.0	.0		.0
TOT PCT	.4	4.5	7.7	2.4	.4	.0		15.4	.9	6.1	6.3	3.3	2.0	.0		18.6

HGT	W							PCT	NW							PCT	TOTAL PCT
	1-3	4-10	11-21	22-33	34-47	48+			1-3	4-10	11-21	22-33	34-47	48+			
<1	1.1	.7	.0	.0	.0	.0		1.9	.1	.6	.2	.0	.0	.0		1.1	
1-2	.2	1.8	.2	.0	.0	.0		2.2	.1	2.2	.2	.0	.0	.0		2.5	
3-4	.0	.9	2.3	.2	.0	.0		3.3	.0	1.5	2.8	.2	.0	.0		4.6	
5-6	.0	.4	2.9	1.6	.2	.0		5.2	.0	.0	1.5	1.0	.0	.0		2.5	
7	.0	.0	.9	1.4	.7	.0		3.0	.0	.0	.6	1.2	.2	.0		2.0	
8-9	.0	.0	.4	.2	.2	.0		.9	.0	.0	.3	.0	.0	.0		.3	
10-11	.0	.0	.4	.7	.5	.0		1.6	.0	.0	.0	.1	.0	.0		.1	
12	.2	.0	.0	1.2	.7	.0		2.1	.0	.0	.0	.0	.0	.0		.0	
13-16	.0	.0	.0	.7	.2	.0		.9	.0	.0	.0	.0	.1	.0		.1	
17-19	.0	.2	.0	.0	.0	.0		.2	.0	.0	.0	.0	.0	.0		.0	
20-22	.0	.0	.0	.0	.4	.0		.4	.0	.0	.0	.0	.0	.0		.0	
23-25	.0	.0	.0	.0	.0	.0		.0	.0	.0	.0	.0	.0	.0		.0	
26-32	.0	.0	.0	.0	.0	.0		.0	.0	.0	.0	.0	.0	.0		.0	
33-40	.0	.0	.0	.0	.0	.0		.0	.0	.0	.0	.0	.0	.0		.0	
41-48	.0	.0	.0	.0	.0	.0		.0	.0	.0	.0	.0	.0	.0		.0	
49-60	.0	.0	.0	.0	.0	.0		.0	.0	.0	.0	.0	.0	.0		.0	
61-70	.0	.0	.0	.0	.0	.0		.0	.0	.0	.0	.0	.0	.0		.0	
71-86	.0	.0	.0	.0	.0	.0		.0	.0	.0	.0	.0	.0	.0		.0	
87+	.0	.0	.0	.0	.0	.0		.0	.0	.0	.0	.0	.0	.0		.0	
TOT PCT	1.5	4.0	7.2	6.0	3.0	.0		21.8	.1	4.5	5.8	2.5	.2	.0		13.2	100.0

WIND SPEED (KTS) VS SEA HEIGHT (FT)

HGT	0-3	4-10	11-21	22-33	34-47	48+	PCT	TOT DBS
<1	2.9	5.8	.5	.0	.0	.0	9.2	
1-2	1.9	16.7	5.1	.0	.0	.0	23.7	
3-4	.0	7.5	16.7	1.0	.0	.0	25.2	
5-6	.0	1.9	12.8	5.6	.5	.0	20.8	
7	.2	.0	3.9	4.4	2.4	.0	10.9	
8-9	.0	.2	1.5	1.2	.2	.0	3.1	
10-11	.0	.0	.5	1.7	1.0	.0	3.1	
12	.2	.0	.0	1.2	.7	.0	2.2	
13-16	.0	.0	.0	.7	.2	.0	1.0	
17-19	.0	.0	.0	.0	.0	.0	.2	
20-22	.0	.0	.0	.0	.5	.0	.5	
23-25	.0	.0	.0	.0	.0	.0	.0	
26-32	.0	.0	.0	.0	.0	.0	.0	
33-40	.0	.0	.0	.0	.0	.0	.0	
41-48	.0	.0	.0	.0	.0	.0	.0	
49-60	.0	.0	.0	.0	.0	.0	.0	
61-70	.0	.0	.0	.0	.0	.0	.0	
71-86	.0	.0	.0	.0	.0	.0	.0	
87+	.0	.0	.0	.0	.0	.0	.0	
TOT PCT	5.3	32.4	40.9	15.7	5.6	.0	100.0	413

PERIOD: (OVER-ALL) 1949-1969

TABLE 19

PERCENT FREQUENCY OF WAVE HEIGHT (FT) VS WAVE PERIOD (SECONDS)

PERIOD (SEC)	<1	1-2	3-4	5-6	7	8-9	10-11	12	13-16	17-19	20-22	23-25	26-32	33-40	41-48	49-60	61-70	71-86	87+	TOTAL	MEAN HGT
<6	.4	5.2	6.5	4.1	1.9	.7	.4	.2	.4	.2	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	107
6-7	.0	.4	3.6	7.1	4.9	3.2	1.3	1.3	2.4	.2	.4	.0	.0	.0	.0	.0	.0	.0	.0	.0	132
8-9	.0	.0	.9	4.3	6.7	3.9	2.4	1.7	1.1	.7	.6	.0	.4	.0	.0	.0	.0	.0	.0	.0	122
10-11	.0	.7	.9	1.5	2.6	3.7	2.4	1.5	.7	.6	.9	.4	.2	.0	.0	.0	.0	.0	.0	.0	87
12-13	.0	.0	.4	.4	.4	1.3	.2	1.9	2.4	.9	.2	.2	.0	.2	.0	.0	.0	.0	.0	.0	45
>13	.0	.0	.0	.4	.9	.9	.2	.0	.4	.4	.4	.0	.2	.0	.0	.0	.0	.0	.0	.0	20
INDET	.2	1.1	.4	.7	.4	.4	.2	.0	.2	.0	.2	.2	.0	.0	.0	.0	.0	.0	.0	.0	22
TOTAL	3	40	68	99	95	76	38	35	41	16	14	4	5	1	0	0	0	0	0	0	535
PCT	.6	7.5	12.7	18.5	17.8	14.2	7.1	6.5	7.7	3.0	2.6	.7	.9	.2	.0	.0	.0	.0	.0	.0	100.0

PERIOD: (PRIMARY) 1906-1972  
(OVER-ALL) 1855-1972

MAY

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38.35 141.0E

TABLE 1

PERCENT FREQUENCY OF WEATHER OCCURRENCE BY WIND DIRECTION

PRECIPITATION TYPE										OTHER WEATHER PHENOMENA						
WIND DIR	RAIN	RAIN SHR	DRZL	FRZG PCPN	SNOW	OTHER FRZN PCPN	HAIL	PCPN AT OB TIME	PCPN PAST HOUR	THDR LTNG	FOG WD PCPN	FOG WD PCPN PAST HR	SMOKE HAZE	SPRAY BLWG DUST	NO SIG WEA	
N	5.4	6.8	1.0	.0	.0	.0	.0	13.2	.8	2.2	.9	.0	.4	.0	82.7	
NE	7.0	4.2	3.3	.0	.0	.0	.0	14.5	.9	1.9	1.4	.0	.9	.0	80.8	
E	3.5	5.5	5.5	.0	.0	.0	.0	14.4	1.0	1.5	.0	.0	1.5	.0	82.1	
SE	1.7	8.6	4.8	.0	.0	.0	.0	15.1	1.4	.0	.0	.0	2.1	.0	81.5	
S	4.5	13.2	6.1	.0	.0	.0	.0	23.1	2.9	.0	.0	.0	.0	.0	74.0	
SW	4.0	18.3	1.7	.0	.0	.0	.0	24.0	2.8	.5	.2	.0	.4	.0	72.1	
W	5.7	9.9	1.4	.0	.0	.0	.2	17.2	6.7	1.0	.2	.0	.0	.0	75.3	
NW	7.1	6.9	2.6	.0	.0	.0	.3	16.9	6.0	1.4	.3	.0	.0	.0	75.8	
VAR	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
CALM	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	11.1	.0	88.9	
TOT PCT	5.1	9.8	2.7	.0	.0	.0	.1	17.6	3.3	1.1	.4	.0	.5	.0	77.3	
TOT OBS:	1352															

TABLE 2

PERCENT FREQUENCY OF WEATHER OCCURRENCE BY HOUR

HOUR (GMT)	PRECIPITATION TYPE							OTHER WEATHER PHENOMENA								
	RAIN	RAIN SHWR	DRZL	FRZG PCPN	SNOW	OTHER FRZN PCPN	HAIL	PCPN AT OB TIME	PCPN PAST HOUR	THDR LTNG	FOG WD PCPN	FOG WD PCPN PAST HR	SMOKE HAZE	SPRAY BLWG BLWG SNOW	DUST DUST DUST	NO SIG WEA
00003	3.8	10.8	2.3	.0	.0	.0	.2	17.1	4.5	.0	.5	.0	.5	.0	.0	77.5
06009	3.8	7.9	2.2	.0	.0	.0	.0	13.9	3.8	.3	.6	.0	.6	.0	.0	80.7
12015	6.4	9.4	2.9	.0	.0	.0	.0	18.7	2.3	2.3	.6	.0	.6	.0	.0	76.0
18021	7.8	10.5	3.0	.0	.0	.0	.0	20.9	2.4	2.7	.0	.0	.3	.0	.0	74.7
TOT PCT	5.3	9.7	2.6	.0	.0	.0	.1	17.6	3.3	1.2	.4	.0	.5	.0	.0	77.2
TOT OBS:	1380															

TABLE 3

PERCENTAGE FREQUENCY OF WIND DIRECTION BY SPEED AND BY HOUR

WIND DIR	WIND SPEED (KNOTS)							48+	TOTAL OBS	PCT FREQ	MEAN SPD	HOUR (GMT)						
	0-3	4-10	11-21	22-33	34-47	00	03					06	09	12	15	18	21	
N	.8	6.1	6.7	2.3	.3	.1		16.0	14.2		17.1	20.2	13.8	22.7	14.5	15.2	13.5	18.5
NE	.4	4.6	2.7	.4	.0	.0		8.2	10.6		10.2	9.8	4.7	7.6	7.6	7.9	8.2	12.0
E	.4	3.9	2.1	.3	*	.0		6.7	10.6		6.0	6.4	6.6	12.9	6.1	8.4	6.3	6.5
SE	.3	3.0	2.7	.4	*	.0		6.5	11.7		5.3	6.2	6.3	4.5	7.4	9.2	6.3	6.5
S	.6	4.5	5.2	1.1	.1	.0		11.5	12.7		10.5	12.8	11.4	7.6	12.0	15.5	11.0	1.1
SW	.3	4.6	6.8	4.3	1.0	*		17.1	17.1		17.3	17.5	17.7	14.4	16.9	14.9	18.6	9.8
W	.4	3.6	8.0	5.8	.9	.1		18.9	18.6		17.8	12.5	22.5	20.5	22.0	13.3	21.3	21.7
NW	.5	3.7	6.3	2.9	.5	.0		13.9	16.0		15.2	13.7	16.2	9.8	11.4	12.2	12.8	23.9
VAR	.0	.0	.0	.0	.0	.0		.0	.0		.0	.0	.0	.0	.0	.0	.0	.0
CALM	1.4							1.4	.0		.8	.9	.8	.0	2.1	3.3	1.9	.0
TOT OBS	98	711	852	370	59	5	2095		14.7		400	326	380	66	326	184	367	46
TOT PCT	4.7	33.9	40.7	17.7	2.8	.2		100.0			100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0

TABLE 3A

WIND DIR	0-6	WIND SPEED (KNOTS)				41+	TOTAL OBS	PCT FREQ	MEAN SPD	HOUR (GMT)			
		7-16	17-27	28-40	00 03					06 09	12 15	18 21	
N	3.0	7.6	3.9	1.3	.2		16.0	14.2	18.5	15.1	14.8	14.0	
NE	2.2	4.5	1.2	.4	.0		8.2	10.6	10.0	5.2	7.7	8.7	
E	1.7	3.7	1.2	*	.0		6.7	10.6	6.2	7.6	6.9	6.4	
SE	1.6	3.2	1.6	.1	.0		6.5	11.7	5.7	6.0	8.0	6.4	
S	2.3	6.0	2.8	.4	.1		11.5	12.7	11.5	10.9	13.3	9.9	
SW	1.4	7.7	5.4	2.5	.1		17.1	17.1	17.4	17.2	16.2	17.6	
W	1.3	7.0	7.2	3.0	.3		18.9	18.6	15.4	22.2	18.9	21.4	
NW	2.0	5.7	4.5	1.8	*		13.9	16.0	14.5	15.2	11.7	14.0	
VAR	.0	.0	.0	.0	.0		.0	.0	.0	.0	.0	.0	
CALM	1.4						1.4	.0	.8	.7	2.5	1.7	
TOT OBS	352	950	581	197	15	2095		14.7	726	446	510	413	
TOT PCT	16.8	45.3	27.7	9.4	.7		100.0		100.0	100.0	100.0	100.0	



PERIOD: (PRIMARY) 1906-1972  
(COVER-ALL) 1855-1972

MAY

AREA 0012 CAPE NELSON  
38.35 141.0E

TABLE 4

PERCENTAGE FREQUENCY OF WIND SPEED BY HOUR (GMT)

HOUR	CALM	1-3	4-10	WIND SPEED (KNOTS)			48+	MEAN	PCT FREQ	TOTAL OBS
				11-21	22-33	34-47				
00003	.8	2.6	32.5	42.0	19.0	2.6	.4	15.1	100.0	726
06009	.7	4.0	33.9	41.3	17.7	2.2	.2	14.7	100.0	446
12015	2.5	3.9	36.9	36.5	17.1	2.9	.2	14.3	100.0	510
18021	1.7	2.9	32.9	42.9	18.0	3.6	.0	14.6	100.0	413
TOT	.9	.6	711	852	870	59	5	14.7		2095
PCT	1.4	3.3	33.9	40.7	17.7	2.8	.2	100.0		

TABLE 5

PCT FREQ OF TOTAL CLOUD AMOUNT (EIGHTHS)  
BY WIND DIRECTION

WIND DIR	0-2	3-4	5-7	8 & OBS	TOTAL OBS	MEAN CLOUD COVER
N	3.8	1.6	5.6	4.5		5.1
NE	2.2	1.1	1.7	1.3		4.3
E	1.4	.9	2.0	.8		4.4
SE	1.4	.6	2.1	1.1		5.0
S	.7	1.6	4.8	3.8		6.1
SW	1.8	3.3	8.6	4.1		5.5
W	2.5	5.2	10.9	6.4		5.6
NW	2.3	2.8	4.5	4.0		5.3
VAR	.0	.0	.0	.0		.0
CALM	.3	.1	.1	.0		2.7
TOT OBS	114	120	282	181	697	5.3
TOT PCT	16.4	17.2	40.5	26.0	100.0	

TABLE 6

PERCENTAGE FREQUENCY OF CEILING HEIGHTS (FT, NH >4/8)  
AND OCCURRENCE OF NH <5/8 BY WIND DIRECTION

000	150	300	600	1000	2000	3500	5000	6500	8000+	NH <5/8	TOTAL
149	299	599	999	1999	3499	4999	6499	7999		ANY HGT	OBS
.0	.0	.3	1.1	2.8	.9	.6	.5	.1	.7	8.5	
.0	.0	.0	.2	.4	.5	.1	.1	.0	.0	4.9	
.0	.0	.0	.3	.6	.3	.1	.0	.0	.0	3.9	
.1	.0	.1	.4	.6	1.4	.3	.0	.0	.0	2.4	
.1	.1	.3	.9	2.8	1.4	1.2	.1	.1	.0	3.9	
.2	.0	.0	1.3	4.7	2.7	1.2	.5	.2	.0	7.0	
.1	.0	.4	3.1	6.4	2.5	.8	.1	.1	.0	11.5	
.0	.1	.2	1.1	2.9	.7	.6	.4	.1	.3	7.1	
.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
.0	.0	.0	.0	.0	.1	.0	.0	.0	.0	.4	
3	2	9	59	147	74	34	12	5	7	345	697
.4	.3	1.3	8.5	21.1	10.6	4.9	1.7	.7	1.8	49.5	100.0

TABLE 7

CUMULATIVE PCT FREQ OF SIMULTANEOUS OCCURRENCE  
OF CEILING HEIGHT (NH >4/8) AND VSBY (NM)

CEILING (FEET)	VSBY (NM)							
	>10	>5	>2	>1	>1/2	>1/4	>50YD	>0
>500	1.7	1.8	1.8	1.8	1.8	1.8	1.8	1.8
>400	3.1	3.4	3.4	3.5	3.5	3.5	3.5	3.5
>300	7.5	8.1	8.1	8.2	8.2	8.2	8.2	8.2
>200	16.7	18.1	18.4	18.6	18.6	18.6	18.6	18.6
>100	34.5	38.8	39.8	40.1	40.1	40.3	40.3	40.3
>50	39.5	46.8	48.6	48.9	48.9	49.0	49.0	49.0
>30	40.3	47.9	49.7	50.1	50.1	50.3	50.3	50.3
>15	40.4	48.0	49.9	50.4	50.4	50.6	50.6	50.6
>0	40.8	48.4	50.3	50.8	50.8	51.0	51.0	51.0
TOTAL	289	343	356	360	360	361	361	361

TOTAL NUMBER OF OBS: 708

PCT FREQ NH <5/8: 49.0

TABLE 7A

PERCENTAGE FREQ OF LOW CLOUDS (EIGHTHS)

0	1	2	3	4	5	6	7	8	OBS	TOTAL OBS
9.4	7.7	9.4	11.1	9.8	8.3	11.1	13.4	19.7	.0	828

PERIOD: (PRIMARY) 1906-1972  
(OVER-ALL) 1855-1972

MAY

AREA 0012 CAPE NELSON  
38.35 141.0E

TABLE 8

PERCENT FREQ OF WIND DIRECTION VS OCCURRENCE OR NON-OCCURRENCE OF  
PRECIPITATION WITH VARYING VALUES OF VISIBILITY

VISBY (NM)		N	NE	E	SE	S	SW	W	NW	VAR	CALM	PCT	TOTAL OBS
<1/2	PCP	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
	NO PCP	*	.1	.0	.0	.0	.0	.1	.0	.0	.0	.2	.2
	TOT %	*	.1	.0	.0	.0	.0	.1	.0	.0	.0	.2	.2
1/2<1	PCP	.1	.0	.0	.0	.0	.2	.3	.0	.0	.0	.6	.6
	NO PCP	.1	.0	.0	.0	.0	*	*	.1	.0	.0	.3	.3
	TOT %	.2	.0	.0	.0	.0	.2	.4	.1	.0	.0	.9	.9
1<2	PCP	.0	.0	.0	*	.1	.0	.0	.2	.0	.0	.3	.3
	NO PCP	.1	.0	.1	.1	.0	.1	.0	.1	.0	.0	.4	.4
	TOT %	.1	.0	.1	.1	.1	.1	.0	.3	.0	.0	.7	.7
2<5	PCP	.0	*	.2	.0	*	.2	.3	.1	.0	.0	.9	.9
	NO PCP	.0	.0	.0	.1	.1	.1	.4	.3	.0	.0	1.0	1.0
	TOT %	.0	*	.2	.1	.1	.3	.6	.4	.0	.0	1.9	1.9
5<10	PCP	1.3	1.0	.9	.8	1.6	2.4	1.9	1.4	.0	.0	11.3	11.3
	NO PCP	5.3	2.8	2.8	1.5	2.6	3.1	4.7	3.1	.0	.1	26.1	26.1
	TOT %	6.6	3.8	3.7	2.3	4.2	5.5	6.6	4.6	.0	.1	37.5	37.5
10+	PCP	.8	.1	.0	*	.7	1.3	1.1	.4	.0	.0	4.5	4.5
	NO PCP	9.0	3.8	3.5	2.8	5.1	9.6	12.3	7.5	.0	.5	54.3	54.3
	TOT %	9.8	4.0	3.5	2.8	5.8	10.9	13.4	8.0	.0	.5	58.8	58.8
TOT OBS													
TOT PCT													
		16.8	7.9	7.4	5.4	10.2	17.0	21.1	13.4	.0	.7	100.0	1351

TABLE 9

PERCENT FREQ OF WIND DIRECTION VS WIND SPEED  
WITH VARYING VALUES OF VISIBILITY

VISBY (NM)	SPD KTS	N	NE	E	SE	S	SW	W	NW	VAR	CALM	PCT	TOTAL OBS
<1/2	0-3	.0	.1	.0	.0	.0	.0	.0	.0	.0	.0	.1	.1
	4-10	*	*	.0	.0	.0	.0	.0	.0	.0	.0	.1	.1
	11-21	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
	22+	.0	.0	.0	.0	.0	.0	.1	.0	.0	.0	.1	.1
	TOT %	*	.1	.0	.0	.0	.0	.1	.0	.0	.0	.2	.2
1/2<1	0-3	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
	4-10	.1	.0	.0	.0	.0	.0	.0	.0	.0	.0	.1	.1
	11-21	*	.0	.0	.0	.0	.1	.2	*	.0	.0	.3	.3
	22+	*	.0	.0	.0	.0	.1	.2	*	.0	.0	.3	.3
	TOT %	.2	.0	.0	.0	.0	.2	.3	.1	.0	.0	.8	.8
1<2	0-3	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
	4-10	.0	.0	*	*	*	.2	.0	.0	.0	.0	.3	.3
	11-21	.0	.0	.1	.1	*	.1	.1	.2	.0	.0	.6	.6
	22+	.1	.0	.0	.0	.0	.0	.0	.1	.0	.0	.1	.1
	TOT %	.1	.0	.1	.1	.1	.3	.1	.3	.0	.0	1.0	1.0
2<5	0-3	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
	4-10	.0	.0	.2	.0	.0	.1	.0	.1	.0	.0	.4	.4
	11-21	.0	*	*	.1	*	.1	.3	.2	.0	.0	.7	.7
	22+	.0	.0	.0	.1	.1	.1	.6	.3	.0	.0	1.1	1.1
	TOT %	.0	*	.2	.1	.1	.3	.8	.6	.0	.0	2.2	2.2
5<10	0-3	.1	.3	.0	.1	.1	.1	.2	.2	.0	.1	1.1	1.1
	4-10	1.8	1.4	2.0	.5	1.4	.9	1.0	1.4	.0	.0	10.5	10.5
	11-21	2.8	1.4	1.1	1.4	1.9	1.5	2.0	1.5	.0	.0	13.7	13.7
	22+	1.1	.3	.2	.2	.5	2.5	3.0	1.1	.0	.0	8.9	8.9
	TOT %	5.9	3.4	3.3	2.3	3.9	5.0	6.2	4.1	.0	.1	34.2	34.2
10+	0-3	.2	.1	.3	*	.2	.1	.2	.3	.0	.7	2.1	2.1
	4-10	4.1	2.8	2.2	2.1	2.7	3.2	2.7	2.5	.0	.0	22.2	22.2
	11-21	4.6	1.6	1.0	1.2	2.8	5.0	6.7	4.5	.0	.0	27.5	27.5
	22+	1.6	.1	.2	*	.5	2.3	3.6	1.5	.0	.0	9.9	9.9
	TOT %	10.5	4.7	3.7	3.3	6.2	10.6	13.2	8.8	.0	.7	61.7	61.7
TOT OBS													
TOT PCT													
		16.7	8.2	7.3	5.8	10.2	16.4	20.7	13.8	.0	.8	100.0	1531

PERIOD: (PRIMARY) 1906-1972  
(OVER-ALL) 1959-1972

MAY

AREA 0012 CAPE NELSON  
38.35 141.0E

TABLE 10

PERCENT FREQUENCY OF CEILING HEIGHTS (FEET, NH >4/8) AND  
OCCURRENCE OF NH <5/8 BY HOUR

HOUR (GMT)	000 149	150 299	300 599	600 999	1000 1999	2000 3499	3500 4999	5000 6499	6500 7999	8000+	TOTAL	NH <5/8 ANY HGT	TOTAL DBS
00003	.0	.0	.9	7.3	24.3	11.9	4.1	1.8	.5	1.8	52.8	47.2	218
06009	.5	.5	1.0	7.6	19.7	9.1	5.1	2.0	1.0	1.0	47.5	52.5	198
12015	.6	.6	2.2	6.1	17.2	7.2	3.3	1.1	1.1	.6	40.0	60.0	180
18021	.6	.0	.6	12.4	18.6	11.2	6.2	1.2	.0	.6	51.6	48.4	161
TOT	3	2	9	62	153	75	35	12	5	8	364	393	757
PCT	.4	.3	1.2	8.2	20.2	9.9	4.6	1.6	.7	1.1	48.1	51.9	100.0

TABLE 11

PERCENT FREQUENCY VSBY (NM) BY HOUR

HOUR (GMT)	<1/2	1/2<1	1<2	2<5	5<10	10+	TOTAL DBS
00003	.6	.4	.8	2.1	35.1	61.0	485
06009	.0	.8	.8	2.5	30.4	65.5	359
12015	.0	1.3	1.6	2.1	38.0	57.1	387
18021	.0	.9	.6	2.4	32.9	63.1	328
TOT	3	13	15	35	534	959	1559
PCT	.2	.8	1.0	2.2	34.3	61.5	100.0

TABLE 12

CUMULATIVE PCT FREQ OF RANGES OF VSBY (NM) AND/OR  
CEILING HGT (FEET, NH >4/8) BY HOUR

HOUR (GMT)	<150 <50YD	<600 <1	<1000 <5	1000+ AND 5+	NH <5/8 AND 5+	TOTAL DBS
00003	.0	1.5	11.2	45.9	42.9	205
06009	.5	2.1	12.2	37.8	50.0	188
12015	.6	3.7	11.7	31.9	56.4	163
18021	.7	1.3	15.8	38.2	46.1	152
TOT	3	15	89	275	344	708
PCT	.4	2.1	12.6	38.8	48.6	100.0

TABLE 13

PERCENT FREQUENCY OF RELATIVE HUMIDITY BY TEMP

TEMP F	0-29	30-39	40-49	50-59	60-69	70-79	80-89	90-100	TOTAL DBS	PCT FREQ
65/69	.0	.0	.0	.2	.5	.6	.2	.0	13	1.5
60/64	.0	.0	.2	.2	3.1	7.1	7.7	2.7	186	21.1
55/59	.0	.0	.0	1.4	10.6	20.8	20.4	6.3	526	59.6
50/54	.0	.0	.0	.2	3.9	5.4	5.3	2.2	150	17.0
45/49	.0	.0	.0	.0	.0	.3	.5	.1	8	.9
TOTAL	0	0	2	18	159	303	301	100	883	100.0
PCT	.0	.0	.2	2.0	18.0	34.3	34.1	11.3		

TABLE 14

PERCENT FREQUENCY OF WIND DIRECTION BY TEMP

	N	NE	E	SE	S	SW	W	NW	VAR	CALM
65/69	.6	.2	.0	.0	.0	.1	.2	.4	.0	.0
60/64	6.8	2.4	1.3	.3	.3	1.1	3.8	4.8	.0	.2
55/59	7.6	2.9	3.6	2.3	5.6	11.1	17.6	8.0	.0	.7
50/54	1.2	.5	.8	.8	3.3	6.0	3.6	1.3	.0	.0
45/49	.0	.0	.0	.0	.0	.7	.2	.1	.0	.0
TOTAL	16.2	6.1	5.3	3.5	9.2	19.0	25.3	14.5	.0	.9

TABLE 15

MEANS, EXTREMES AND PERCENTILES OF TEMP (DEG F) BY HOUR

HOUR (GMT)	MAX	99%	95%	50%	5%	1%	MIN	MEAN	TOTAL DBS
00003	69	65	63	57	52	46	46	57.2	718
06009	68	65	63	58	52	48	47	57.7	448
12015	64	63	61	57	52	49	46	56.6	509
18021	64	63	61	56	51	48	46	56.2	418
TOT	69	65	62	57	52	48	46	56.9	2093

TABLE 16

PERCENT FREQUENCY OF RELATIVE HUMIDITY BY HOUR

HOUR (GMT)	0-29	30-59	60-69	70-79	80-89	90-100	MEAN	TOTAL DBS
00003	.0	2.7	16.0	37.3	34.6	9.5	78	263
06009	.0	5.3	21.8	30.7	31.6	10.7	77	225
12015	.0	.0	17.0	34.0	37.7	11.3	79	212
18021	.0	1.0	17.1	33.7	32.2	16.1	75	199
TOT	0	21	161	306	306	175	78	899

MAY

PERIOD: (PRIMARY) 1906-1972  
(OVER-ALL) 1855-1972

TABLE 17

AREA 0012 CAPE NELSON  
38.35 141.0FPCT FREQ OF AIR TEMPERATURE (DEG F) AND THE OCCURRENCE OF FOG (WITHOUT PRECIPITATION)  
VS AIR-SEA TEMPERATURE DIFFERENCE (DEG F)

AIR-SEA TMP DIF	45 48	49 52	53 56	57 60	61 64	65 68	69 72	TOT	W FOG	NO FOG
7/8	.0	.0	.1	.1	.0	.3	.1	7	.0	.6
6	.0	.0	.0	.0	.1	.0	.0	1	.0	.1
5	.0	.0	.2	.1	.3	.3	.0	10	.0	.9
4	.0	.0	.1	.3	1.2	.1	.0	20	.0	1.7
3	.0	.0	.2	.6	1.4	.2	.0	27	.0	2.3
2	.0	.0	.2	1.3	2.6	.2	.0	49	.0	4.2
1	.0	.0	.5	3.1	3.1	.2	.0	80	.1	6.8
0	.0	.2	1.2	8.0	1.9	.0	.0	132	.0	11.3
-1	.0	.1	1.7	7.9	1.2	.0	.0	128	.0	10.9
-2	.0	.2	4.4	11.2	.6	.0	.0	191	.1	16.2
-3	.0	.2	5.3	5.6	.1	.0	.0	131	.0	11.2
-4	.0	.6	7.2	4.2	.2	.0	.0	142	.1	12.1
-5	.0	1.1	6.3	1.4	.1	.0	.0	104	.1	8.8
-6	.0	.8	4.3	.3	.0	.0	.0	53	.0	5.4
-7/-8	.3	2.1	2.6	.3	.0	.0	.0	61	.0	5.2
-9/-10	.2	.9	.5	.0	.0	.0	.0	18	.0	1.5
-11/-13	.1	.3	.0	.0	.0	.0	.0	4	.0	.3
-14/-16	.0	.2	.0	.0	.0	.0	.0	2	.0	.2
TOTAL	7		405	147	1			1170	.3	1166
PCT	.6	75	520	15				100.0	.3	99.7

PERIOD: (OVER-ALL) 1963-1977

TABLE 18

PCT FREQ OF WIND SPEED (KTS) AND DIRECTION VERSUS SEA HEIGHTS (FT)

HGT	1-3	4-10	11-21	22-33	34-47	48+	PCT	1-3	4-10	11-21	22-33	34-47	48+	PCT
<1	.2	.8	.0	.0	.0	.0	1.0	.0	.3	.0	.0	.0	.0	.3
1-2	.0	.8	.4	.0	.0	.0	1.2	.2	1.3	.0	.0	.0	.0	1.6
3-4	.0	1.3	3.6	.0	.0	.0	4.8	.0	1.3	1.3	.2	.0	.0	2.9
5-6	.0	.6	2.6	1.2	.2	.0	4.6	.0	.0	.5	.1	.0	.0	.6
7	.0	.0	1.6	1.0	.0	.0	2.6	.0	.0	.2	.0	.0	.0	.2
8-9	.0	.0	.4	.0	.0	.0	.4	.0	.0	.0	.0	.0	.0	.0
10-11	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
12	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
13-16	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
17-19	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
20-22	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
23-25	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
26-32	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
33-40	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
41-48	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
49-60	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
61-70	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
71-86	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
87+	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
TOT PCT	.2	3.4	8.6	2.2	.2	.0	14.6	.2	3.0	2.1	.3	.0	.0	5.5

HGT	1-3	4-10	11-21	22-33	34-47	48+	PCT	1-3	4-10	11-21	22-33	34-47	48+	PCT
<1	.0	.4	.2	.0	.0	.0	.6	.0	.3	.0	.0	.0	.0	.3
1-2	.0	1.5	.2	.0	.0	.0	1.7	.0	.1	.8	.0	.0	.0	.9
3-4	.0	.8	1.0	.0	.0	.0	1.8	.0	.5	1.2	.0	.0	.0	1.7
5-6	.0	.0	.0	.2	.0	.0	.2	.0	.2	.5	.0	.0	.0	.7
7	.0	.0	.0	.0	.0	.0	.0	.0	.0	.1	.0	.0	.0	.1
8-9	.0	.0	.0	.0	.0	.0	.0	.0	.0	.1	.2	.0	.0	.3
10-11	.0	.0	.0	.2	.0	.0	.2	.0	.0	.0	.0	.0	.0	.0
12	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
13-16	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
17-19	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
20-22	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
23-25	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
26-32	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
33-40	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
41-48	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
49-60	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
61-70	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
71-86	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
87+	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
TOT PCT	.0	2.7	1.4	.4	.0	.0	4.5	.0	1.1	2.6	.2	.0	.0	3.9

PERIOD: (OVER-ALL) 1963-1972

MAY

AREA 0012 CAPE NELSON  
38.35 141.0E

TABLE 18 (CONT)

PCT FREQ OF WIND SPEED (KTS) AND DIRECTION VERSUS SEA HEIGHTS (FT)

HGT	S							PCT	SW							PCT
	1-3	4-10	11-21	22-33	34-47	48+			1-3	4-10	11-21	22-33	34-47	48+		
<1	.0	.4	.0	.0	.0	.0	.4	.0	.0	.4	.0	.0	.0	.0	.0	.4
1-2	.0	2.0	1.1	.0	.0	.0	3.1	.1	1.4	.7	.0	.0	.0	.0	.0	2.2
3-4	.0	1.4	1.7	.0	.0	.0	3.1	.0	1.3	2.5	.0	.0	.0	.0	.0	3.8
5-6	.0	.0	1.8	.0	.0	.0	1.8	.0	.3	3.9	.8	.0	.0	.0	.0	5.0
7	.0	.0	.8	.2	.0	.0	1.0	.0	.0	.9	.9	.0	.0	.0	.0	1.8
8-9	.0	.0	.4	.0	.0	.0	.4	.0	.0	.6	.1	.0	.0	.0	.0	.7
10-11	.0	.0	.0	.2	.0	.0	.2	.0	.0	.2	.1	.0	.0	.0	.0	.3
12	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.1	.0	.0	.0	.0	.1
13-16	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.2	.0	.0	.0	.0	.2
17-19	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.1	.0	.0	.0	.0	.1
20-22	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
23-25	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
26-32	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
33-40	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
41-48	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
49-60	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
61-70	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
71-86	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
87+	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
TOT PCT	.0	3.8	5.7	.4	.0	.0	10.0	.1	3.4	8.8	2.2	.0	.0	.0	.0	14.5

HGT	W							PCT	NW							TOTAL PCT
	1-3	4-10	11-21	22-33	34-47	48+			1-3	4-10	11-21	22-33	34-47	48+		
<1	.2	.2	.0	.0	.0	.0	.4	.2	.5	.0	.0	.0	.0	.0	.0	.7
1-2	.2	1.2	1.1	.0	.0	.0	2.5	.0	1.2	1.7	.0	.0	.0	.0	.0	3.1
3-4	.0	1.2	4.3	.4	.0	.0	5.9	.0	.9	2.7	.8	.0	.0	.0	.0	4.3
5-6	.0	.8	7.1	1.8	.2	.0	10.0	.0	.0	3.4	.6	.0	.0	.0	.0	4.3
7	.0	.0	2.2	1.8	.2	.0	4.2	.0	.0	1.0	1.0	.0	.0	.0	.0	2.0
8-9	.0	.0	1.0	1.9	.2	.0	3.1	.0	.0	.3	.2	.0	.0	.0	.0	.5
10-11	.0	.0	.0	1.2	.4	.0	1.7	.0	.0	.0	.6	.0	.0	.0	.0	.6
12	.0	.0	.0	.4	.0	.0	.4	.0	.0	.0	.0	.0	.0	.0	.0	.0
13-16	.0	.0	.0	.8	.0	.0	.8	.0	.0	.0	.1	.0	.0	.0	.0	.1
17-19	.0	.0	.2	1.0	.0	.0	1.2	.0	.0	.0	.0	.2	.0	.0	.0	.2
20-22	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
23-25	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
26-32	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
33-40	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
41-48	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
49-60	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
61-70	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
71-86	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
87+	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
TOT PCT	.4	3.4	15.9	9.4	1.1	.0	30.2	.2	3.0	9.2	3.2	.2	.0	.0	15.8	99.1

WIND SPEED (KTS) VS SEA HEIGHT (FT)

HGT	0-3	4-10	11-21	22-33	34-47	48+	PCT	TOT OBS
<1	2.3	3.4	.2	.0	.0	.0	5.9	
1-2	.4	9.6	5.9	.0	.0	.0	15.9	
3-4	.2	3.9	18.0	1.3	.0	.0	23.5	
5-6	.0	2.1	19.5	4.7	.4	.0	26.6	
7	.0	.0	6.6	4.9	.2	.0	11.7	
8-9	.0	.0	2.8	2.3	.4	.0	5.3	
10-11	.0	.0	.2	2.3	.4	.0	3.0	
12	.0	.0	.0	.4	.0	.0	.4	
13-16	.0	.0	.0	1.1	.0	.0	1.1	
17-19	.0	.0	.2	1.1	.2	.0	1.5	
20-22	.0	.0	.0	.0	.0	.0	.0	
23-25	.0	.0	.0	.0	.0	.0	.0	
26-32	.0	.0	.0	.0	.0	.0	.0	
33-40	.0	.0	.0	.0	.0	.0	.0	
41-48	.0	.0	.0	.0	.0	.0	.0	
49-60	.0	.0	.0	.0	.0	.0	.0	
61-70	.0	.0	.0	.0	.0	.0	.0	
71-86	.0	.0	.0	.0	.0	.0	.0	
87+	.0	.0	.0	.0	.0	.0	.0	471
TOT PCT	3.0	24.0	53.5	18.0	1.5	.0	100.0	

PERIOD: (OVER-ALL) 1949-1972

TABLE 19

PERCENT FREQUENCY OF WAVE HEIGHT (FT) VS WAVE PERIOD (SECONDS)

PERIOD (SEC)	<1	1-2	3-4	5-6	7	8-9	10-11	12	13-16	17-19	20-22	23-25	26-32	33-40	41-48	49-60	61-70	71-86	87+	TOTAL	MEAN HGT
<6	.5	4.5	7.7	3.9	1.7	.8	.9	.0	.3	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	134	4
6-7	.2	.6	2.3	6.6	6.2	3.3	2.0	.0	1.1	.3	.3	.0	.0	.0	.0	.0	.0	.0	.0	157	7
8-9	.0	.5	.3	4.1	6.3	4.5	2.9	1.7	2.0	.6	.3	.0	.0	.0	.0	.0	.0	.0	.0	153	8
10-11	.0	.5	.6	1.7	1.7	3.0	3.3	1.8	2.9	.5	.5	.2	.2	.2	.0	.0	.0	.0	.0	111	10
12-13	.0	.0	.0	.3	.6	1.5	1.7	.2	.5	.3	.3	.2	.0	.0	.0	.0	.0	.0	.0	34	11
>13	.0	.0	.0	.3	.0	.2	.9	.3	1.1	.3	.3	.0	.0	.0	.0	.0	.0	.0	.0	22	12
INDET	.8	.9	.8	2.1	.9	.5	.3	.3	.2	.8	.2	.0	.2	.0	.0	.0	.0	.0	.0	51	7
TOTAL	9	46	77	126	115	91	70	34	52	18	12	2	2	1	0	0	0	0	0	664	8
PCT	1.4	6.9	11.6	19.0	17.3	13.7	11.9	5.1	7.8	2.7	1.8	.3	.3	.2	.0	.0	.0	.0	.0	100.0	



PERIOD: (PRIMARY) 1894-1969  
(OVER-ALL) 1857-1969

JUNE

AREA 0012 CAPE NELSON  
38.35 141.06

TABLE 1

PERCENT FREQUENCY OF WEATHER OCCURRENCE BY WIND DIRECTION

PRECIPITATION TYPE										OTHER WEATHER PHENOMENA						
WIND DIR	RAIN	RAIN SHWR	DRZL	FRZG PCPN	SNOW	OTHER FRZN PCPN	HAIL	PCPN AT DB TIME	PCPN PAST HOUR	THOR LTNG	FOG WD PCPN	FOG WD PCPN PAST HR	SMOKE HAZE	SPRAY BLWG DUST	NO SIG WEA	
N	4.4	3.5	.8	.0	.0	.0	.0	8.2	1.3	1.1	.3	.0	.5	.0	88.6	
NE	1.0	2.0	.0	.0	.0	.0	.0	2.9	.0	.0	1.0	.0	.0	.0	96.1	
E	2.2	2.8	.0	.0	.0	.0	.0	5.0	1.1	.0	.0	.0	.0	.0	93.9	
SE	5.0	9.1	1.3	.0	.0	.0	.0	16.4	1.3	.0	2.0	.0	.0	.0	80.2	
S	2.7	7.8	.0	.0	.0	.0	1.3	11.9	1.6	.0	3.6	.0	.0	.0	83.0	
SW	1.4	11.8	3.5	.0	.0	.0	2.2	18.9	5.4	.0	.9	.0	.0	.0	74.8	
W	6.6	23.0	2.2	.0	.0	.0	.0	31.8	5.4	1.4	.0	.0	.0	.0	62.1	
NW	7.2	8.1	1.4	.0	.0	.0	.0	16.7	3.5	2.3	2.1	.0	.9	.0	75.5	
VAR	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
CALM	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	100.0	
TOT	4.2	8.7	1.3	.0	.0	.0	.5	14.6	2.8	.8	1.2	.0	.3	.0	80.6	
PCT OBS:	1087															

TABLE 2

PERCENT FREQUENCY OF WEATHER OCCURRENCE BY HOUR

HOUR (GMT)	PRECIPITATION TYPE								OTHER WEATHER PHENOMENA						
	RAIN	RAIN SHWR	DRZL	FRZG PCPN	SNOW	OTHER FRZN PCPN	HAIL	PCPN AT DB TIME	PCPN PAST HOUR	THOR LTNG	FOG WD PCPN	FOG WD PCPN PAST HR	SMOKE HAZE	SPRAY BLWG DUST BLWG SNOW	NO SIG WEA
0000	4.3	10.4	.9	.0	.0	.0	.6	16.1	2.3	.0	1.7	.0	.3	.0	79.5
0600	2.3	10.2	.8	.0	.0	.0	1.2	14.5	2.3	.0	1.2	.0	.4	.0	81.6
1200	6.6	7.3	2.2	.0	.0	.0	.0	15.7	3.3	2.2	.7	.0	.4	.0	78.8
1800	3.0	7.2	2.1	.0	.0	.0	.0	12.3	3.0	1.3	.9	.0	.0	.0	82.6
TOT PCT TOT OBS:	4.1 1112	8.9	1.4	.0	.0	.0	.4	14.8	2.7	.8	1.2	.0	.3	.0	80.5

TABLE 3

PERCENTAGE FREQUENCY OF WIND DIRECTION BY SPEED AND BY HOUR

WIND DIR	WIND SPEED (KNOTS)							48+	TOTAL OBS	PCT FREQ	MEAN SPD	HOUR (GMT)						
	0-3	4-10	11-21	22-33	34-47	00	03					06	09	12	15	18	21	
N	.8	5.4	7.2	3.2	.3	.1		17.1	15.0		18.7	19.5	12.9	14.7	14.8	16.3	18.3	32.3
NE	.6	5.1	3.6	1.1	.2	.0		10.6	12.0		12.7	8.4	11.2	13.8	9.6	11.3	9.8	9.7
E	.6	4.6	3.6	.4	.1	.2		9.5	11.9		10.2	9.8	9.3	12.5	10.6	7.5	9.2	3.2
SE	.3	3.1	2.9	.8	.1	.0		7.2	12.6		6.0	6.9	10.2	4.5	7.7	6.6	6.1	8.1
S	.9	3.8	3.6	1.2	.3	.0		9.7	13.2		7.4	9.4	10.5	3.6	11.5	15.1	8.7	4.8
SW	.7	3.9	6.7	2.3	.8	.0		14.4	15.4		13.1	14.3	14.8	17.9	15.6	14.0	14.7	6.5
W	.4	2.7	4.5	3.1	.6	.1		11.4	17.9		10.9	9.4	13.7	8.9	11.2	11.6	12.0	11.3
NW	.4	4.4	9.5	4.5	.5	.0		19.4	16.6		20.4	21.1	17.3	20.5	18.2	17.1	20.2	24.2
VAR	.0	.0	.0	.0	.0	.0		.0	.0		.0	.0	.0	.0	.0	.0	.0	.0
CALM	.7							.7	.0		.6	1.0	.0	3.6	.8	.6	.0	.0
TOT OBS	97	597	749	299	51	7	1800		14.6		339	297	316	56	258	181	322	31
TOT PCT	5.4	33.2	41.6	16.6	2.8	.4		100.0			100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0

TABLE 3A

WIND DIR	WIND SPEED (KNOTS)					TOTAL OBS	PCT FREQ	MEAN SPD	HOUR (GMT)			
	0-6	7-16	17-27	28-40	41+				00 03	06 09	12 15	18 21
N	2.3	7.8	5.4	1.4	.2		17.1	15.0	19.1	13.2	15.4	19.5
NE	2.4	6.0	1.8	.3	.1		10.6	12.0	10.7	11.6	10.3	9.8
E	2.2	5.8	1.1	.3	.3		9.5	11.9	10.0	9.8	9.3	8.7
SE	1.8	3.1	2.1	.2	*		7.2	12.6	6.4	9.3	7.2	6.3
S	2.3	4.1	2.8	.4	.1		9.7	13.2	8.4	9.5	13.0	8.4
SW	2.1	6.4	4.6	1.1	.2		14.4	15.4	13.7	15.3	14.9	14.0
W	.9	4.8	3.4	2.2	.2		11.4	17.9	10.2	13.0	11.4	12.0
NW	1.7	7.5	8.2	1.8	.2		19.4	16.6	20.7	17.8	17.8	20.5
VAR	.0	.0	.0	.0	.0		.0	.0	.0	.0	.0	.0
CALM	.7						.7	.0	.8	.5	.7	.8
TOT OBS	292	818	531	138	21	1800		14.6	636	372	439	353
TOT PCT	16.2	45.4	29.5	7.7	1.2		100.0		100.0	100.0	100.0	100.0

PERIOD: (PRIMARY) 1894-1969  
(OVER-ALL) 1857-1969

JUNE

AREA 0012 CAPE NELSON  
38.35 141.0E

TABLE 4

PERCENTAGE FREQUENCY OF WIND SPEED BY HOUR (GMT)

HOUR	CALM	1-3	4-10	WIND SPEED (KNOTS)			48+	MEAN	PCT FREQ	TOTAL OBS
				11-21	22-33	34-47				
00E03	.8	3.5	29.6	43.2	18.1	4.1	.8	15.6	100.0	636
06E09	.5	4.6	34.7	40.6	17.5	1.9	.3	14.3	100.0	372
12E15	.7	4.8	35.3	41.9	15.0	2.3	.0	13.9	100.0	439
18E21	.8	6.8	35.4	39.4	15.0	2.3	.3	14.0	100.0	353
TOT	13	84	597	749	299	51	7	14.6		1800
PCT	.7	4.7	33.2	41.6	16.6	2.8	.4	100.0		

TABLE 5

PCT FREQ OF TOTAL CLOUD AMOUNT (EIGHTHS)  
BY WIND DIRECTION

WIND DIR	0-2	3-4	5-7	8 & OBSCD	TOTAL OBS	MEAN CLOUD COVER
N	3.4	3.9	5.4	4.0		4.9
NE	2.8	1.0	3.7	2.3		4.9
E	3.0	2.4	2.7	2.7		4.4
SE	1.5	.8	1.1	2.5		5.3
S	.4	1.7	4.0	2.2		6.0
SW	.7	5.0	7.8	1.1		5.1
W	1.2	2.3	6.6	2.9		5.5
NW	5.2	2.2	6.3	7.0		5.2
VAR	.0	.0	.0	.0		.0
CALM	.0	.2	.4	.4		6.6
TOT OBS	97	104	203	130	534	5.1
TOT PCT	18.2	19.5	38.0	24.3	100.0	

TABLE 6

PERCENTAGE FREQUENCY OF CEILING HEIGHTS (FT, NH >4/8)  
AND OCCURRENCE OF NH <5/8 BY WIND DIRECTION

000 149	150 299	300 599	600 999	1000 1999	2000 3499	3500 4999	5000 6499	6500 7999	8000+	NH <5/8 ANY HGT	TOTAL OBS
.0	.0	.5	1.1	2.2	1.1	.7	.3	.2	.4	10.3	
.0	.0	.0	.5	1.5	.9	1.0	.0	.2	.2	5.9	
.0	.0	.0	.5	1.3	1.6	.6	.4	.0	.0	6.6	
.2	.0	.2	.4	1.1	1.0	.5	.0	.0	.0	2.5	
.0	.0	.0	.9	3.4	1.2	.1	.2	.0	.0	2.5	
.0	.0	.1	1.4	2.5	2.2	.5	.2	.0	.0	7.7	
.0	.0	.1	1.2	3.1	1.7	.6	.5	.0	.0	6.0	
.0	.0	.3	2.0	3.7	1.3	1.2	.3	.0	.6	11.4	
.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
.0	.0	.0	.4	.2	.0	.2	.0	.0	.0	.2	
1	0	6	42	96	59	28	10	2	6	284	
.2	.0	1.1	7.9	18.0	11.0	5.2	1.9	.4	1.1	53.2	
										534	

TABLE 7

CUMULATIVE PCT FREQ OF SIMULTANEOUS OCCURRENCE  
OF CEILING HEIGHT (NH >4/8) AND VSBY (NM)

CEILING (FEET)	VSBY (NM)							
	>10	>5	>2	>1	>1/2	>1/4	>50YD	>0
* OR >A500	1.5	1.5	1.5	1.5	1.5	1.5	1.5	1.5
* OR >A000	2.9	3.1	3.1	3.3	3.3	3.3	3.3	3.3
* OR >A500	8.4	8.6	8.6	8.8	8.8	8.8	8.8	8.8
* OR >A000	18.0	19.1	19.6	19.8	19.8	19.8	19.8	19.8
* OR >A000	31.7	36.3	37.4	37.6	37.6	37.6	37.6	37.6
* OR >A000	38.0	44.2	45.5	45.7	45.7	45.7	45.7	45.7
* OR >A000	38.2	45.3	46.6	46.8	46.8	46.8	46.8	46.8
* OR >A000	38.2	45.3	46.6	46.8	46.8	46.8	46.8	46.8
* OR >A000	38.2	45.3	46.6	46.8	46.8	46.8	46.8	46.8
* OR >A000	38.2	45.3	46.6	46.8	46.8	46.8	46.8	46.8
TOTAL	208	247	254	255	255	255	256	256

TOTAL NUMBER OF OBS: 545

PCT FREQ NH <5/8: 53.0

TABLE 7A

PERCENTAGE FREQ OF LOW CLOUDS (EIGHTHS)

0	1	2	3	4	5	6	7	8	OBSCD	TOTAL OBS
8.3	11.2	9.9	10.6	12.0	8.9	9.9	10.7	18.3	.2	606

PERIOD: (PRIMARY) 1894-1969  
(OVER-ALL) 1857-1969

JUNE

AREA 0012 CAPE NELSON  
38.35 141.0E

TABLE 8

PERCENT FREQ OF WIND DIRECTION VS OCCURRENCE OR NON-OCCURRENCE OF  
PRECIPITATION WITH VARYING VALUES OF VISIBILITY

VSBY (NM)		N	NE	E	SE	S	SW	W	NW	VAR	CALM	PCT	TOTAL OBS
<1/2	PCP	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
	NO PCP	.0	.1	.0	.1	.0	.0	.0	.0	.0	.0	.2	
	TOT %	.0	.1	.0	.1	.0	.0	.0	.0	.0	.0	.2	
1/2<1	PCP	.0	.0	.0	.1	.0	.0	.0	.0	.0	.0	.1	
	NO PCP	*	.3	.0	.0	.2	.1	.0	.4	.0	.0	1.0	
	TOT %	*	.3	.0	.1	.2	.1	.0	.4	.0	.0	1.1	
1<2	PCP	.0	.0	.0	.0	.1	*	.1	.0	.0	.0	.2	
	NO PCP	.0	.0	.0	.0	.0	.0	*	*	.0	.0	.1	
	TOT %	.0	.0	.0	.0	.1	*	.1	*	.0	.0	.3	
2<5	PCP	.2	.0	.0	.1	.0	.0	.1	.1	.0	.0	.5	
	NO PCP	.0	.0	.0	.1	.0	.1	.1	.3	.0	.0	.6	
	TOT %	.2	.0	.0	.2	.0	.1	.2	.4	.0	.0	1.0	
5<10	PCP	.8	.2	.4	.9	.8	1.9	3.3	2.4	.0	.0	10.7	
	NO PCP	7.0	3.0	2.2	2.6	4.3	4.0	3.5	6.0	.0	.0	32.5	
	TOT %	7.8	3.2	2.6	3.5	5.1	5.8	6.9	8.4	.0	.0	43.1	
10+	PCP	.5	*	.0	*	.3	.9	.6	.9	.0	.0	3.2	
	NO PCP	8.8	5.8	5.7	3.0	4.5	7.7	5.1	10.1	.0	.5	51.1	
	TOT %	9.2	5.8	5.7	3.0	4.9	8.6	5.7	10.9	.0	.5	54.3	
TOT OBS													
TOT PCT													
		17.2	9.4	8.3	6.9	10.3	14.6	12.8	20.1	.0	.5	100.0	1087

TABLE 9

PERCENT FREQ OF WIND DIRECTION VS WIND SPEED  
WITH VARYING VALUES OF VISIBILITY

VSBY (NM)	SPD KTS	N	NE	E	SE	S	SW	W	NW	VAR	CALM	PCT	TOTAL OBS
<1/2	0-3	.0	.0	.0	.1	.0	.0	.0	.0	.0	.0	.1	
	4-10	.0	.1	.0	.0	.0	.0	.0	.0	.0	.0	.1	
	11-21	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
	22+	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
	TOT %	.0	.1	.0	.1	.0	.0	.0	.0	.0	.0	.2	
1/2<1	0-3	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
	4-10	*	.2	.0	.1	.0	.1	.0	.2	.0	.0	.6	
	11-21	.0	.0	.0	.0	.2	.0	.0	.2	.0	.0	.3	
	22+	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
	TOT %	*	.2	.0	.1	.2	.1	.0	.4	.0	.0	1.0	
1<2	0-3	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
	4-10	.0	.0	.0	.0	.1	.0	.0	.0	.0	.0	.1	
	11-21	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
	22+	.0	.0	.0	.0	.0	*	.1	*	.0	.0	.2	
	TOT %	.0	.0	.0	.0	.1	*	.1	*	.0	.0	.2	
2<5	0-3	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
	4-10	.0	.0	.0	.0	.1	.0	.0	.0	.0	.0	.1	
	11-21	.1	.0	.0	.1	.0	.0	.1	.2	.0	.0	.5	
	22+	.2	.0	.0	.1	.0	.1	.1	.2	.0	.0	.6	
	TOT %	.2	.0	.0	.2	.1	.1	.2	.4	.0	.0	1.1	
5<10	0-3	.9	.2	.1	.2	.5	.4	.2	*	.0	.0	2.5	
	4-10	1.5	1.3	1.3	1.0	1.9	1.6	1.8	.9	.0	.0	11.4	
	11-21	3.0	.8	1.1	1.3	1.6	2.6	2.1	4.3	.0	.0	16.8	
	22+	1.6	.5	.0	.7	.6	.7	2.0	2.4	.0	.0	8.4	
	TOT %	7.0	2.8	2.4	3.1	4.6	5.3	6.1	7.7	.0	.0	39.1	
10+	0-3	*	.2	.2	.0	.2	.4	.1	.1	.0	.6	1.9	
	4-10	3.6	3.1	3.3	1.8	2.3	3.1	1.4	3.6	.0	.0	22.3	
	11-21	4.5	3.0	2.3	1.4	2.1	4.2	2.7	5.7	.0	.0	26.0	
	22+	1.4	.3	.1	.3	.9	1.7	1.3	2.2	.0	.0	8.3	
	TOT %	9.5	6.6	6.0	3.5	5.5	9.4	5.6	11.6	.0	.6	58.4	
TOT OBS													
TOT PCT													
		16.8	9.7	8.5	7.0	10.5	14.9	12.0	20.0	.0	.6	100.0	1233

## JUNE

PERIOD: (PRIMARY) 1894-1969  
(OVER-ALL) 1857-1969

AREA 0012 CAPE NELSON  
38.35 141.0E

TABLE 10

PERCENT FREQUENCY OF CEILING HEIGHTS (FEET, NH > 4/8) AND  
OCCURRENCE OF NH < 5/8 BY HOUR

HOURL (GMT)	000	150	300	600	1000	2000	3500	5000	6500	8000+	TOTAL	NH < 5/8 ANY HGT	TOTAL OBS
00003	.6	.0	1.1	9.5	16.2	12.3	7.8	2.2	.0	.6	50.3	49.7	179
06009	.0	.0	.0	7.3	19.2	13.9	4.6	2.0	.7	.0	47.7	52.3	151
12015	.0	.0	.8	7.3	17.1	7.3	4.9	.8	.8	1.6	40.7	59.3	123
18021	.0	.0	2.5	5.9	15.3	6.8	2.5	1.7	.0	2.5	37.3	62.7	118
TOT	1	0	6	44	97	60	30	10	2	6	256	315	571
PCT	.2	.0	1.1	7.7	17.0	10.5	5.3	1.8	.4	1.1	44.8	55.2	100.0

TABLE 11

PERCENT FREQUENCY VS BY (NM) BY HOUR

HOURL (GMT)	<1/2	1/2<1	1<2	2<5	5<10	10+	TOTAL OBS
00003	.5	1.3	.8	.8	37.5	59.2	397
06009	.0	1.4	.0	1.7	34.4	62.5	291
12015	.0	.3	.0	1.3	45.0	53.4	309
18021	.0	.8	.0	1.1	41.0	57.1	261
TOT	2	12	3	15	495	731	1258
PCT	.2	1.0	.2	1.2	39.3	58.1	100.0

TABLE 12

CUMULATIVE PCT FREQ OF RANGES OF VS BY (NM) AND/OR  
CEILING HGT (FEET, NH > 4/8) BY HOUR

HOURL (GMT)	<150 <50YD	<600 <1	<1000 <5	1000+ AND 5+	NH < 5/8 AND 5+	TOTAL OBS
00003	.6	2.3	14.5	38.7	46.8	173
06009	.0	.0	10.5	40.6	49.0	143
12015	.0	.9	8.5	34.2	57.3	117
18021	.0	2.7	10.7	29.5	59.8	112
TOT	1	8	62	198	285	545
PCT	.2	1.5	11.4	36.3	52.3	100.0

TABLE 13

PERCENT FREQUENCY OF RELATIVE HUMIDITY BY TEMP

TEMP F	0-29	30-39	40-49	50-59	60-69	70-79	80-89	90-100	TOTAL OBS	PCT FREQ
60/64	.0	.0	.1	.0	.6	1.4	2.7	.9	40	5.8
55/59	.0	.0	.1	2.2	7.5	19.9	15.7	4.3	345	49.6
50/54	.0	.0	.0	2.2	11.1	11.4	14.4	3.9	298	42.9
45/49	.0	.0	.0	.0	.3	.6	.4	.4	12	1.7
TOTAL	0	0	2	30	135	231	231	66	695	100.0
PCT	.0	.0	.3	4.3	19.4	33.2	33.2	9.5		

TABLE 14

PERCENT FREQUENCY OF WIND DIRECTION BY TEMP

	N	NE	E	SE	S	SW	W	NW	VAR	CALM
60/64	.9	.3	.3	.0	.1	.1	.7	3.3	.0	.0
55/59	11.0	3.9	5.2	3.3	3.2	5.4	7.0	10.6	.0	.0
50/54	6.3	3.8	3.5	3.4	6.3	10.0	3.6	5.2	.0	.7
45/49	.3	.3	.1	.0	.4	.4	.1	.1	.0	.0
TOTAL	18.5	8.3	9.1	6.7	10.0	15.8	11.5	19.3	.0	.7

TABLE 15

MEANS, EXTREMES AND PERCENTILES OF TEMP (DEG F) BY HOUR

HOURL (GMT)	MAX	99%	95%	50%	5%	1%	MIN	MEAN	TOTAL OBS
00003	68	63	50	55	50	48	47	54.9	635
06009	64	62	50	55	51	50	48	55.6	373
12015	61	60	59	55	50	48	46	54.5	439
18021	63	60	58	54	49	48	46	54.1	355
TOT	68	62	59	55	50	48	46	54.8	1802

TABLE 16

PERCENT FREQUENCY OF RELATIVE HUMIDITY BY HOUR

HOURL (GMT)	0-29	30-59	60-69	70-79	80-89	90-100	MEAN	TOTAL OBS
00003	.0	5.8	17.5	35.4	30.0	11.2	77	223
06009	.0	5.7	21.1	32.0	31.4	9.7	77	175
12015	.0	3.0	22.6	31.7	37.2	5.5	77	164
18021	.0	3.4	17.1	33.6	34.2	11.6	78	144
TOT	0	33	138	236	233	68	77	708

JUNE

PERIOD: (PRIMARY) 1894-1969  
(OVER-ALL) 1857-1969

TABLE 17

AREA 0012 CAPE NELSON  
38.35 141.0EPCT FREQ OF AIR TEMPERATURE (DEG F) AND THE OCCURRENCE OF FOG (WITHOUT PRECIPITATION)  
VS AIR-SEA TEMPERATURE DIFFERENCE (DEG F)

AIR-SEA TMP DIF	45 48	49 52	53 56	57 60	61 64	TOT	W FOG	WD FOG
7/8	.0	.0	.0	.1	.0	1	.0	.1
6	.0	.1	.0	.0	.0	1	.0	.1
5	.0	.0	.0	.4	.2	6	.0	.6
4	.0	.0	.2	.3	.1	6	.0	.6
3	.0	.0	.3	.8	.3	14	.0	1.5
2	.0	.1	.7	2.2	.1	30	.1	3.0
1	.0	.0	1.0	2.3	.3	35	.0	3.6
0	.0	.3	4.1	4.6	.3	89	.0	9.3
-1	.0	.4	4.2	5.5	.2	99	.1	10.2
-2	.0	1.2	7.0	4.6	.1	124	.2	12.7
-3	.0	1.4	8.1	3.3	.0	123	.2	12.6
-4	.0	2.9	11.5	2.1	.0	159	.0	16.5
-5	.0	4.2	7.3	.6	.0	116	.1	12.0
-6	.1	3.0	3.7	.1	.0	67	.0	7.0
-7/-8	.0	3.5	2.9	.1	.0	63	.2	6.3
-9/-10	.3	2.0	.4	.0	.0	26	.0	2.7
-11/-13	.1	.2	.0	.0	.0	3	.0	.3
TOTAL	5	186	495	260	16	962	.9	953
PCT	.5	19.3	51.5	27.0	1.7	100.0	.9	99.1

PERIOD: (OVER-ALL) 1963-1969

TABLE 18

PCT FREQ OF WIND SPEED (KTS) AND DIRECTION VERSUS SEA HEIGHTS (FT)

HGT	N						PCT	NE						PCT
	1-3	4-10	11-21	22-33	34-47	48+		1-3	4-10	11-21	22-33	34-47	48+	
<1	.0	.3	.0	.0	.0	.0	.3	.0	1.0	.3	.0	.0	.0	1.3
1-2	.0	3.9	1.0	.0	.0	.0	5.0	.0	3.5	.6	.0	.0	.0	4.1
3-4	.0	1.0	2.9	.6	.0	.0	4.4	.0	.6	1.0	.0	.0	.0	1.7
5-6	.0	.0	2.6	1.9	.0	.0	4.5	.0	.0	.7	.3	.0	.0	1.0
7	.0	.0	1.4	1.2	.0	.0	2.6	.0	.0	.0	.1	.0	.0	.1
8-9	.0	.0	.0	.6	.0	.0	.6	.0	.0	.6	.0	.0	.0	.6
10-11	.0	.0	.0	.2	.3	.0	.5	.0	.0	.0	.1	.0	.0	.0
12	.0	.0	.0	.3	.0	.0	.3	.0	.0	.0	.0	.0	.0	.0
13-16	.0	.0	.0	.5	.0	.0	.5	.0	.0	.0	.0	.0	.0	.0
17-19	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
20-22	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
23-25	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
26-32	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
33-40	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
41-48	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
49-60	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
61-70	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
71-86	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
87+	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
TOT PCT	.0	5.2	7.9	5.3	.3	.0	18.7	.0	5.1	3.3	.4	.0	.0	8.8

HGT	E						PCT	SE						PCT
	1-3	4-10	11-21	22-33	34-47	48+		1-3	4-10	11-21	22-33	34-47	48+	
<1	.0	.0	.0	.0	.0	.0	.0	.3	.3	.0	.0	.0	.0	.6
1-2	.0	2.0	.2	.0	.0	.0	2.2	.0	.8	.6	.0	.0	.0	1.4
3-4	.0	3.1	2.2	.0	.0	.0	5.3	.0	.4	.3	.0	.0	.0	.7
5-6	.0	.0	.3	.3	.0	.0	.6	.0	.0	.6	.0	.0	.0	.6
7	.0	.0	.6	.2	.0	.0	.9	.0	.0	.0	.1	.0	.0	.1
8-9	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
10-11	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
12	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
13-16	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
17-19	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
20-22	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
23-25	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
26-32	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
33-40	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
41-48	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
49-60	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
61-70	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
71-86	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
87+	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
TOT PCT	.0	5.1	3.4	.6	.0	.0	9.0	.3	1.5	1.6	.1	.0	.0	3.5



PERIOD: (OVER-ALL) 1963-1969

JUNE

AREA 0012 CAPE NELSON  
38.35 141.0E

TABLE 18 (CONT)

PCT FREQ OF WIND SPEED (KTS) AND DIRECTION VERSUS SEA HEIGHTS (FT)

HGT	S							SW							PCT
	1-3	4-10	11-21	22-33	34-47	48+	PCT	1-3	4-10	11-21	22-33	34-47	48+	PCT	
<1	.3	.0	.0	.0	.0	.0	.3	.3	.7	.1	.0	.0	.0	.0	1.1
1-2	.0	1.0	.0	.0	.0	.0	1.0	.0	2.9	.0	.0	.0	.0	.0	3.4
3-4	.0	1.0	.6	.0	.0	.0	1.5	.0	1.1	4.4	.3	.0	.0	.0	5.8
5-6	.0	.0	.9	.0	.0	.0	.9	.0	.0	1.8	.6	.0	.0	.0	2.5
7	.0	.0	.2	.2	.0	.0	.5	.0	.0	.8	.5	.0	.0	.0	1.3
8-9	.0	.0	.0	.3	.0	.0	.3	.0	.0	.3	.4	.0	.0	.0	.7
10-11	.0	.0	.0	.3	.0	.0	.3	.0	.0	.0	.0	.0	.0	.0	.0
12	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
13-16	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.6	.0	.0	.0	.6
17-19	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
20-22	.0	.0	.0	.0	.3	.0	.3	.0	.0	.0	.0	.0	.0	.0	.0
23-25	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
26-32	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
33-40	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
41-48	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
49-60	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
61-70	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
71-86	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
87+	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
TOT PCT	.3	2.0	1.7	.9	.3	.0	5.2	.3	4.7	8.0	2.5	.0	.0	.0	15.5

HGT	W							NW							PCT	TOTAL PCT
	1-3	4-10	11-21	22-33	34-47	48+	PCT	1-3	4-10	11-21	22-33	34-47	48+	PCT		
<1	.0	.2	.2	.0	.0	.0	.5	.0	.3	.0	.0	.0	.0	.0	.3	
1-2	.0	1.1	1.9	.0	.0	.0	3.0	.0	5.5	1.1	.0	.0	.0	.0	6.6	
3-4	.0	1.7	1.0	.0	.0	.0	2.7	.0	1.0	3.3	.4	.0	.0	.0	4.7	
5-6	.0	.0	1.4	1.0	.0	.0	2.4	.0	.0	3.4	1.9	.0	.0	.0	5.4	
7	.0	.0	1.8	.2	.0	.0	2.0	.0	.0	2.5	2.2	.0	.0	.0	4.7	
8-9	.0	.0	.2	.6	.0	.0	.8	.0	.0	.7	1.0	.3	.0	.0	2.1	
10-11	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.4	.0	.0	.0	.4	
12	.0	.0	.0	.6	.0	.0	.6	.0	.0	.0	.6	.0	.0	.0	.6	
13-16	.0	.0	.0	.6	.0	.0	.6	.0	.0	.0	.2	.0	.0	.0	.2	
17-19	.0	.0	.0	.3	.0	.0	.3	.0	.0	.0	.0	.0	.0	.0	.0	
20-22	.0	.0	.0	.3	.0	.0	.3	.0	.0	.0	.0	.0	.0	.0	.0	
23-25	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
26-32	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
33-40	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
41-48	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
49-60	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
61-70	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
71-86	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
87+	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
TOT PCT	.0	3.0	6.6	3.7	.0	.0	13.3	.0	6.9	11.0	6.8	.3	.0	.0	25.0	99.0

WIND SPEED (KTS) VS SEA HEIGHT (FT)

HGT	0-3	4-10	11-21	22-33	34-47	48+	PCT	TOT OBS
<1	2.2	2.9	.6	.0	.0	.0	5.7	
1-2	.0	21.0	6.0	.0	.0	.0	27.0	
3-4	.0	9.8	15.6	1.3	.0	.0	26.7	
5-6	.0	.0	11.7	6.0	.0	.0	17.8	
7	.0	.0	7.3	4.8	.0	.0	12.1	
8-9	.0	.0	1.9	2.9	.3	.0	5.1	
10-11	.0	.0	.0	1.0	.3	.0	1.3	
12	.0	.0	.0	1.6	.0	.0	1.6	
13-16	.0	.0	.0	1.9	.0	.0	1.9	
17-19	.0	.0	.0	.3	.0	.0	.3	
20-22	.0	.0	.0	.3	.3	.0	.6	
23-25	.0	.0	.0	.0	.0	.0	.0	
26-32	.0	.0	.0	.0	.0	.0	.0	
33-40	.0	.0	.0	.0	.0	.0	.0	
41-48	.0	.0	.0	.0	.0	.0	.0	
49-60	.0	.0	.0	.0	.0	.0	.0	
61-70	.0	.0	.0	.0	.0	.0	.0	
71-86	.0	.0	.0	.0	.0	.0	.0	
87+	.0	.0	.0	.0	.0	.0	.0	
TOT PCT	2.2	33.7	43.2	20.0	1.0	.0	100.0	315

PERIOD: (OVER-ALL) 1949-1969

TABLE 19

PERCENT FREQUENCY OF WAVE HEIGHT (FT) VS WAVE PERIOD (SECONDS)

PERIOD (SEC)	<1	1-2	3-4	5-6	7	8-9	10-11	12	13-16	17-19	20-22	23-25	26-32	33-40	41-48	49-60	61-70	71-86	87+	TOTAL	MEAN HGT
<6	.4	5.8	8.4	4.2	1.9	.4	.4	.4	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	105	4
6-7	.0	.2	3.5	9.8	4.2	2.9	2.3	.8	.8	.4	.0	.0	.0	.0	.0	.0	.0	.0	.0	120	7
8-9	.0	.0	1.9	4.0	3.5	6.5	1.9	1.5	.8	1.0	.2	.0	.0	.0	.0	.0	.0	.0	.0	102	8
10-11	.0	.2	.6	1.7	2.7	1.3	3.5	.8	2.9	.0	.0	.0	.4	.0	.0	.0	.0	.0	.0	88	10
12-13	.0	.0	.2	1.0	.2	1.0	2.1	1.9	.8	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	35	9
13	.0	.0	.0	.0	.2	.8	.0	.0	.2	.0	.4	.0	.0	.0	.0	.0	.0	.0	.0	10	15
INDET	.2	1.0	1.9	1.3	1.3	.6	1.3	.0	.2	.2	.2	.0	.0	.0	.0	.0	.0	.0	.0	39	5
TOTAL	3	35	79	105	67	65	55	26	28	8	4	0	4	0	0	0	0	0	0	479	7
PCT	.6	7.3	16.5	21.9	14.0	13.6	11.5	5.4	5.8	1.7	.8	.0	.8	.0	.0	.0	.0	.0	.0	100.0	

JULY

PERIOD: (PRIMARY) 1894-1970  
(OVER-ALL) 1855-1970AREA 0012 CAPE NELSON  
38.35 141.0E

TABLE 1

## PERCENT FREQUENCY OF WEATHER OCCURRENCE BY WIND DIRECTION

PRECIPITATION TYPE										OTHER WEATHER PHENOMENA						
WIND DIR	RAIN	RAIN SHWR	DRZL	FRZG PCPN	SNOW	OTHER FRZN PCPN	HAIL	PCPN AT DB TIME	PCPN PAST HOUR	THDR LTNG	FGG WD PCPN	FGG WD PCPN PAST HR	SMOKE HAZE	SPRAY BLWG DUST	NO SIG WEA	
N	4.4	5.9	1.1	.0	.0	.0	.0	11.4	.8	.7	.5	.0	.0	.0	86.7	
NE	5.4	7.4	.0	.0	.0	.0	.0	12.8	.3	1.4	1.4	.0	.0	.0	84.1	
E	4.5	.0	3.4	.0	.0	.0	.0	7.9	3.9	.0	.0	.0	.0	.0	88.2	
SE	.0	12.9	5.9	.0	.0	.0	.0	18.6	1.0	.0	.0	.0	.0	.0	80.2	
S	4.7	10.5	2.5	.0	.0	.0	.4	18.1	4.0	.8	.6	.0	.0	.0	74.4	
SW	5.9	13.2	1.8	.0	.0	.0	1.5	22.5	5.6	.0	.7	.0	.0	.0	71.2	
W	5.3	18.2	1.7	.0	.0	.0	.7	25.8	5.1	1.3	.4	.0	.0	.0	68.4	
NW	7.4	8.3	2.5	.0	.0	.0	.0	17.8	4.9	3.0	1.3	.0	.0	.0	74.0	
VAR	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
CALM	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	100.0	
TOT PCT	5.4	10.7	1.9	.0	.0	.0	.4	18.3	4.0	1.2	.7	.0	.0	.0	76.2	
TOT OBS:	1161															

TABLE 2

## PERCENT FREQUENCY OF WEATHER OCCURRENCE BY HOUR

PRECIPITATION TYPE											OTHER WEATHER PHENOMENA					
HOUR (GMT)	RAIN	RAIN SHWR	DRZL	FRZG PCPN	SNOW	OTHER FRZN PCPN	HAIL	PCPN AT DB TIME	PCPN PAST HOUR	THDR LTNG	FGG WD PCPN	FGG WD PCPN PAST HR	SMOKE HAZE	SPRAY BLWG DUST	NO SIG WEA	
00003	5.5	10.1	1.4	.0	.0	.0	.3	17.3	3.8	1.1	.5	.0	.0	.0	77.8	
06009	6.0	11.7	1.1	.0	.0	.0	.0	18.7	4.2	.0	1.1	.0	.0	.0	76.0	
12015	3.7	10.1	2.7	.0	.0	.0	1.0	17.2	2.4	2.7	.7	.0	.0	.0	77.8	
18021	6.8	10.8	2.8	.0	.0	.0	.4	20.7	5.2	.8	.4	.0	.0	.0	73.3	
TOT PCT TOT OBS:	5.4 1196	10.6	1.9	.0	.0	.0	.4	18.3	3.8	1.2	.7	.0	.0	.0	76.4	

TABLE 3

## PERCENTAGE FREQUENCY OF WIND DIRECTION BY SPEED AND BY HOUR

WIND DIR	WIND SPEED (KNOTS)							48+	TOTL DBS	PCT FREQ	MEAN SPD	HOUR (GMT)						
	0-3	4-10	11-21	22-33	34-47	00	03					06	09	12	15	18	21	
N	.3	4.8	8.8	4.1	1.1	.0		19.1	16.9		20.4	20.5	18.2	15.3	14.7	19.8	20.9	21.2
NE	.5	3.3	2.1	.8	.0	.0		6.7	11.7		5.6	7.1	6.4	8.2	9.3	7.3	6.0	.0
E	.2	1.7	2.3	.3	.0	.0		4.5	12.0		3.8	3.9	5.0	7.1	5.9	4.5	4.3	.0
SE	.2	1.3	1.5	.1	.1	.0		3.0	11.6		2.7	4.1	2.2	4.1	2.0	6.4	2.0	2.6
S	.7	3.7	4.6	1.3	.1	.0		10.3	13.5		9.8	9.3	10.4	18.9	11.5	9.2	8.9	19.2
SW	.1	4.2	6.5	4.2	.6	.0		15.7	16.8		15.1	15.5	16.9	17.9	14.8	14.2	16.2	17.9
W	.7	4.6	8.9	4.5	1.1	.2		20.0	17.3		19.5	19.8	23.1	12.2	23.1	17.0	18.1	17.9
NW	.5	4.3	8.1	5.4	1.5	.1		19.9	18.4		22.9	19.5	17.3	16.3	18.3	19.8	22.0	18.5
VAR	.0	.0	.0	.0	.0	.0		.0	.0		.0	.0	.0	.0	.0	.0	.0	.0
CALM	.8							.8	.0		.3	.4	.6	.0	.4	1.7	1.6	2.5
TOT DBS	70	498	765	371	80	7	1791		16.1		325	282	238	49	268	179	311	39
TOT PCT	3.9	27.8	42.7	20.7	4.5	.4		100.0			100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0

TABLE 3A

WIND DIR	WIND SPEED (KNOTS)							TOTAL DBS	PCT FREQ	MEAN SPD	HOUR (GMT)						
	0-6	7-16	17-27	28-40	41+						00	06	12	18			
N	1.9	8.3	6.2	2.5	.2			19.1	16.9		20.4	17.8	16.8	20.9			
NE	1.5	3.9	1.0	.3	.0			6.7	11.7		6.3	6.6	8.5	5.4			
E	.9	2.7	.8	.1	.0			4.5	12.0		3.8	5.2	5.3	3.8			
SE	.5	2.0	.4	.1	.0			3.0	11.6		3.2	2.5	3.7	2.1			
S	1.5	5.2	3.2	.4	.0			10.3	13.5		9.6	11.4	10.6	10.1			
SW	1.5	7.2	4.9	2.0	.2			15.7	16.8		15.3	17.1	14.6	16.4			
W	2.1	8.0	6.8	2.7	.4			20.0	17.3		19.6	21.7	20.7	18.1			
NW	1.7	7.8	6.9	2.8	.7			19.9	18.4		21.3	17.2	18.9	21.6			
VAR	.0	.0	.0	.0	.0			.0	.0		.0	.0	.0	.0			
CALM	.8				.0			.8	.0		.3	.5	.9	1.7			
TOT DBS	221	809	539	195	27	1791			16.1		607	387	447	350			
TOT PCT	12.3	45.2	30.1	10.9	1.5			100.0			100.0	100.0	100.0	100.0			

JULY

PERIOD: (PRIMARY) 1894-1970  
(OVER-ALL) 1855-1970AREA 0012 CAPE NELSON  
38.35 141.0E

TABLE 4

PERCENTAGE FREQUENCY OF WIND SPEED BY HOUR (GMT)

HOURLY	CALM	1-3	4-10	WIND SPEED (KNOTS)			48+	MEAN	PCT FREQ	TOTAL OBS
				11-21	22-33	34-47				
00003	.3	2.8	28.7	42.5	21.1	4.1	.5	16.2	100.0	607
06009	.5	2.8	27.9	42.4	21.7	4.4	.3	16.2	100.0	387
12015	.9	4.0	30.0	41.8	17.2	5.8	.2	15.6	100.0	447
18021	1.7	2.9	23.4	44.6	23.4	3.4	.6	16.4	100.0	350
TOT	14	56	498	765	371	80	7	16.1		1791
PCT	.8	3.1	27.8	42.7	20.7	4.5	.4	100.0		

TABLE 5

PCT FREQ OF TOTAL CLOUD AMOUNT (EIGHTHS)  
BY WIND DIRECTION

WIND DIR	0-2	3-4	5-7	8 & 10	TOTAL OBS	MEAN CLOUD COVER
N	3.4	2.3	6.5	6.4		5.6
NE	1.9	.8	2.6	1.3		4.9
E	.3	.5	.6	1.3		5.8
SE	.0	.1	.3	.3		6.3
S	.5	2.4	6.4	.8		5.3
SW	1.8	4.5	8.3	1.5		4.9
W	2.2	5.1	10.0	4.7		5.5
NW	3.7	3.1	10.1	6.0		5.5
VAR	.0	.0	.0	.0		.0
CALM	.0	.2	.0	.0		3.0
TOT OBS	72	99	232	116	519	5.4
TOT PCT	13.9	19.1	44.7	22.4	100.0	

TABLE 6

PERCENTAGE FREQUENCY OF CEILING HEIGHTS (FT, NH >4/8)  
AND OCCURRENCE OF NH <5/8 BY WIND DIRECTION

000	150	300	600	1000	2000	3500	5000	6500	8000+	NH <5/8	TOTAL
149	299	599	999	1999	3999	4999	6499	7999		ANY HGT	OBS
.0	.0	.5	1.8	4.4	1.1	.7	.2	.0	.1	9.7	
.0	.0	.4	.0	1.6	.6	.0	.0	.0	.0	3.9	
.0	.0	.0	.4	.3	.2	.0	.0	.0	.0	1.8	
.0	.0	.0	.1	*	.2	.2	.0	.0	.0	.1	
.0	.0	.0	1.5	2.2	1.1	.7	.0	.0	.2	4.3	
.0	.0	.8	1.4	2.8	1.5	1.1	.2	.0	.0	8.3	
.0	.0	.9	3.9	5.1	1.6	1.3	.0	.0	.1	9.2	
.0	.0	.4	2.0	5.8	1.8	1.2	.2	.0	.3	11.2	
.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.2	
.0	.0	16	38	116	42	27	3	0	4	253	
.0	.0	3.1	11.2	22.4	8.1	5.2	.6	.0	.8	48.7	
										519	
										100.0	

TABLE 7

CUMULATIVE PCT FREQ OF SIMULTANEOUS OCCURRENCE  
OF CEILING HEIGHT (NH >4/8) AND VSBY (NM)

CEILING (FEET)	VSBY (NM)							
	>10	>5	>2	>1	>1/2	>1/4	>50YD	>0
>4500	.8	.8	.8	.8	.8	.8	.8	.8
>4000	1.1	1.1	1.5	1.5	1.5	1.5	1.5	1.5
>3500	4.9	5.8	6.8	6.8	6.8	6.8	6.8	6.8
>3000	11.5	13.2	14.7	14.7	14.7	14.7	14.7	14.7
>2500	30.3	35.4	37.1	37.1	37.1	37.1	37.1	37.1
>2000	38.0	46.0	48.2	48.2	48.2	48.2	48.2	48.2
>1500	40.1	48.6	51.2	51.2	51.2	51.2	51.2	51.2
>1000	40.1	48.6	51.2	51.2	51.2	51.2	51.2	51.2
>500	40.1	48.6	51.2	51.2	51.2	51.2	51.2	51.2
>0	40.1	48.6	51.2	51.2	51.2	51.2	51.2	51.2
TOTAL	213	258	272	272	272	272	272	272

TOTAL NUMBER OF OBS: 531

PCT FREQ NH &lt;5/8: 48.8

TABLE 7A

PERCENTAGE FREQ OF LOW CLOUDS (EIGHTHS)

0	1	2	3	4	5	6	7	8	OBSCD	TOTAL OBS
5.9	8.0	9.7	12.4	11.5	11.3	11.6	13.3	16.4	.0	611

JULY

PERIOD: (PRIMARY) 1894-1970  
(OVER-ALL) 1855-1970AREA 0012 CAPE NELSON  
38.35 141.0E

TABLE 8

PERCENT FREQ OF WIND DIRECTION VS OCCURRENCE OR NON-OCCURRENCE OF  
PRECIPITATION WITH VARYING VALUES OF VISIBILITY

VSBY (NM)		N	NE	E	SE	S	SW	W	NW	VAR	CALM	PCT	TOTAL OBS
<1/2	PCP	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
	NO PCP	.0	.0	.0	.0	.1	*	.0	.0	.0	.0	.1	
	TOT %	.0	.0	.0	.0	.1	*	.0	.0	.0	.0	.1	
1/2<1	PCP	.0	.0	.0	.1	.0	*	.1	.0	.0	.0	.3	
	NO PCP	.0	.0	.0	.0	.0	.0	.1	.3	.0	.0	.3	
	TOT %	.0	.0	.0	.1	.0	*	.2	.3	.0	.0	.6	
1<2	PCP	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
	NO PCP	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
	TOT %	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
2<5	PCP	.2	.1	.0	.0	*	*	.3	.2	.0	.0	.9	
	NO PCP	.0	.0	.0	.0	.1	.3	.3	.5	.0	.0	1.1	
	TOT %	.2	.1	.0	.0	.1	.3	.6	.7	.0	.0	2.0	
5<10	PCP	1.6	.6	.3	.2	1.0	2.2	4.0	2.7	.0	.0	12.5	
	NO PCP	7.4	2.4	2.0	1.5	3.3	5.6	7.5	6.1	.0	.2	36.0	
	TOT %	9.0	3.0	2.3	1.7	4.3	7.8	11.5	8.8	.0	.2	48.5	
10+	PCP	.3	.1	*	.2	.9	1.1	1.3	.8	.0	.0	4.7	
	NO PCP	9.5	3.2	1.5	.3	5.1	6.0	8.4	10.0	.0	.2	44.1	
	TOT %	9.8	3.3	1.6	.4	5.9	7.2	9.6	10.8	.0	.2	48.8	
TOT OBS													1141
TOT PCT		19.1	6.4	3.8	2.2	10.4	15.3	21.9	20.5	.0	.3	100.0	

TABLE 9

PERCENT FREQ OF WIND DIRECTION VS WIND SPEED  
WITH VARYING VALUES OF VISIBILITY

VSBY (NM)	SPD KTS	N	NE	E	SE	S	SW	W	NW	VAR	CALM	PCT	TOTAL OBS	
<1/2	0-3	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0		
	4-10	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0		
	11-21	.0	.0	.0	.0	.1	*	.0	.0	.0	.0	.1		
	22+	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0		
	TOT %	.0	.0	.0	.0	.1	*	.0	.0	.0	.0	.1		
1/2<1	0-3	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0		
	4-10	.0	.0	.0	.0	.0	*	*	.0	.0	.0	.1		
	11-21	.0	.0	.0	.1	.0	.0	.1	*	.0	.0	.2		
	22+	.0	.0	.0	.0	.0	*	*	.2	.0	.0	.2		
	TOT %	.0	.0	.0	.1	.0	*	.2	.2	.0	.0	.5		
1<2	0-3	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0		
	4-10	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0		
	11-21	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0		
	22+	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0		
	TOT %	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0		
2<5	0-3	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0		
	4-10	.1	.0	.0	.0	*	.1	.1	*	.0	.0	.3		
	11-21	.1	.0	.0	.0	.1	.1	.3	.2	.0	.0	.8		
	22+	.2	.1	.0	.0	.0	.2	.3	.4	.0	.0	1.1		
	TOT %	.3	.1	.0	.0	.2	.3	.7	.6	.0	.0	2.2		
5<10	0-3	*	.3	.2	*	.2	*	.3	.2	.0	.2	1.5		
	4-10	1.6	1.2	.7	.5	1.5	1.7	1.9	1.9	.0	.0	11.0		
	11-21	4.3	.8	1.2	.9	1.9	2.6	5.1	3.5	.0	.0	20.2		
	22+	2.2	.3	.0	.1	.4	2.9	3.6	2.9	.0	.0	12.5		
	TOT %	8.2	2.7	2.1	1.5	4.0	7.3	10.9	8.5	.0	.2	45.3		
10+	0-3	.1	.1	.0	.1	.2	.1	.3	.3	.0	.4	1.6		
	4-10	3.1	1.6	.6	.2	1.9	2.2	2.6	2.2	.0	.0	14.4		
	11-21	4.7	1.0	.9	.5	3.4	3.9	5.0	4.6	.0	.0	23.9		
	22+	2.2	.5	.0	.1	1.0	2.1	2.3	3.7	.0	.0	11.9		
	TOT %	10.1	3.2	1.5	.8	6.5	8.3	10.3	10.8	.0	.4	51.9		
TOT OBS														1295
TOT PCT		18.6	5.9	3.7	2.4	10.7	16.0	22.1	20.1	.0	.5	100.0		

JULY

PERIOD: (PRIMARY) 1894-1970  
(OVER-ALL) 1855-1970AREA 0012 CAPE NELSON  
38.35 141.06

TABLE 10

PERCENT FREQUENCY OF CEILING HEIGHTS (FEET, NH >4/8) AND  
OCCURRENCE OF NH <5/8 BY HOUR

HOUR (GMT)	000 149	150 299	300 599	600 999	1000 1999	2000 3499	3500 4999	5000 6499	6500 7999	8000+	TOTAL	NH <5/8 ANY HGT	TOTAL OBS
00003	.0	.0	2.3	9.7	27.4	4.6	2.9	1.1	.0	.6	48.6	51.4	175
06009	.0	.0	2.0	10.0	18.0	11.3	4.7	1.3	.0	1.3	48.7	51.3	150
12015	.0	.0	4.3	8.5	19.7	5.1	7.7	.0	.0	.0	45.3	54.7	117
18021	.0	.0	3.3	14.2	17.5	9.2	5.8	.0	.0	.8	50.8	49.2	120
TOT	0	0	16	59	119	42	28	4	0	4	272	290	562
PCT	.0	.0	2.8	10.5	21.2	7.5	5.0	.7	.0	.7	48.4	51.6	100.0

TABLE 11

PERCENT FREQUENCY VS BY (NH) BY HOUR

HOUR (GMT)	<1/2	1/2<1	1<2	2<5	5<10	10+	TOTAL OBS
00003	.2	.5	.0	2.4	44.0	52.8	409
06009	.0	1.0	.0	2.6	43.8	52.7	313
12015	.0	.3	.0	.9	49.6	49.3	335
18021	.0	.4	.0	2.6	45.8	51.3	273
TOT	1	7	0	28	608	686	1330
PCT	.1	.5	.0	2.1	45.7	51.6	100.0

TABLE 12

CUMULATIVE PCT FREQ OF RANGES OF VS BY (NH) AND/OR  
CEILING HGT (FEET, NH >4/8), BY HOUR

HOUR (GMT)	<150 <50YD	<600 <1	<1000 <5	1000+ AND 5+	NH <5/8 AND 5+	TOTAL OBS
00003	.0	3.1	16.0	36.8	47.2	163
06009	.0	2.1	15.2	35.9	49.0	145
12015	.0	4.7	15.9	34.6	49.5	107
18021	.0	3.4	19.8	33.6	46.6	116
TOT	0	17	88	188	255	531
PCT	.0	3.2	16.6	35.4	48.0	100.0

TABLE 13

PERCENT FREQUENCY OF RELATIVE HUMIDITY BY TEMP

TEMP F	0-29	30-39	40-49	50-59	60-69	70-79	80-89	90-100	TOTAL OBS	PCT FREQ
65/69	.0	.0	.0	.0	.1	.0	.0	.0	1	.1
60/64	.0	.0	.0	.1	.4	.7	.4	.0	12	1.7
55/59	.0	.0	.0	1.0	4.6	13.1	15.9	3.2	273	37.7
50/54	.0	.0	.4	1.7	9.4	14.9	22.4	6.1	397	54.8
45/49	.0	.0	.0	.4	2.2	1.4	1.1	.0	40	5.5
40/44	.0	.0	.0	.0	.0	.1	.0	.0	1	.1
TOTAL	0	0	3	23	108	224	291	75	724	100.0
PCT	.0	.0	.4	3.2	14.9	30.9	40.2	10.4		

TABLE 14

PERCENT FREQUENCY OF WIND DIRECTION BY TEMP

	N	NE	E	SE	S	SW	W	NW	VAR	CALM
65/69	.0	.0	.0	.0	.0	.1	.1	.0	.0	.0
60/64	.2	.2	.1	.0	.0	.1	.8	.1	.0	.0
55/59	7.3	3.0	1.5	.2	2.3	3.8	9.1	10.4	.0	.1
50/54	9.5	3.3	2.3	.9	6.5	10.0	10.9	11.0	.0	.3
45/49	1.5	.5	.0	.2	2.0	.8	.1	.4	.0	.0
40/44	.0	.0	.0	.0	.0	.1	.0	.0	.0	.0
TOTAL	18.6	7.0	3.9	1.3	10.8	15.0	21.0	21.9	.0	.4

TABLE 15

MEANS, EXTREMES AND PERCENTILES OF TEMP (DEG F) BY HOUR

HOUR (GMT)	MAX	99%	95%	50%	5%	1%	MIN	MEAN	TOTAL OBS
00003	64	60	58	54	49	47	43	53.8	595
06009	65	61	59	54	50	47	46	54.4	394
12015	60	58	57	53	50	46	42	53.4	450
18021	63	60	57	53	49	46	44	53.0	354
TOT	65	60	58	54	49	47	42	53.7	1793

TABLE 16

PERCENT FREQUENCY OF RELATIVE HUMIDITY BY HOUR

HOUR (GMT)	0-29	30-59	60-69	70-79	80-89	90-100	MEAN	TOTAL OBS
00003	.0	5.7	11.8	28.5	41.2	12.7	79	228
06009	.0	3.8	21.4	33.5	33.0	8.2	77	182
12015	.0	4.7	12.8	31.4	40.7	10.5	78	172
18021	.0	.6	14.0	30.6	44.6	10.2	80	157
TOT	0	29	110	228	294	78	78	739



JULY

PERIOD: (PRIMARY) 1894-1970  
(OVER-ALL) 1855-1970AREA 0012 CAPE NELSON  
38.35 141.0E

TABLE 17

PCT FREQ OF AIR TEMPERATURE (DEG F) AND THE OCCURRENCE OF FOG (WITHOUT PRECIPITATION)  
VS AIR-SEA TEMPERATURE DIFFERENCE (DEG F)

AIR-SEA TMP DIF	41	45	49	53	57	61	65	TOT	W FOG	WD FOG
	44	48	52	56	60	64	68			
9/10	.0	.0	.0	.0	.0	.1	.0	1	.0	.1
7/8	.0	.0	.0	.3	.0	.1	.2	6	.0	.6
5	.0	.0	.0	.5	.1	.1	.0	7	.1	.6
4	.0	.0	.0	.5	.2	.3	.0	10	.0	1.0
3	.0	.0	.1	.4	1.0	.0	.0	15	.0	1.5
2	.0	.0	.3	1.4	1.3	.1	.0	33	.0	3.2
1	.0	.0	.6	2.6	2.3	.0	.0	57	.1	5.5
0	.0	.0	.3	4.5	3.7	.0	.0	87	.0	8.5
-1	.0	.0	1.4	7.0	2.2	.0	.0	108	.0	10.6
-2	.0	.0	2.5	8.6	1.4	.0	.0	128	.2	12.3
-3	.0	.0	3.2	11.1	.6	.0	.0	152	.0	14.9
-4	.0	.4	4.7	8.2	.4	.0	.0	140	.0	13.7
-5	.0	.0	6.1	5.3	.1	.0	.0	117	.0	11.4
-6	.0	.4	4.1	1.8	.1	.0	.0	65	.0	6.4
-7/-8	.1	.6	3.7	1.6	.1	.0	.0	52	.0	6.1
-9/-10	.0	.6	1.3	.0	.1	.0	.0	20	.0	2.0
-11/-13	.1	.8	.4	.2	.0	.0	.0	12	.0	1.2
-14/-16	.1	.0	.1	.0	.0	.0	.0	2	.0	.2
TOTAL	3	25	294	551	140	7	2	1022	4	1018
PCT	.3	2.4	26.8	53.9	13.7	.7	.2	100.0	.4	99.6

PERIOD: (OVER-ALL) 1963-1970

TABLE 18

PCT FREQ OF WIND SPEED (KTS) AND DIRECTION VERSUS SEA HEIGHTS (FT)

HGT	1-3	4-10	11-21	22-33	34-47	48+	PCT	NE	SE	PCT
<1	.0	.0	.0	.0	.0	.0	.0	.9	.0	.9
1-2	.0	2.1	.0	.0	.0	.0	2.1	1.0	1.0	2.0
3-4	.0	1.3	3.7	.0	.0	.0	5.0	.4	.3	.7
5-6	.0	.2	4.0	1.5	.0	.0	5.8	.0	.3	.6
7	.0	.0	1.1	1.1	.0	.0	2.3	.0	1.2	1.2
8-9	.0	.0	.0	.2	.0	.0	.2	.0	.3	.3
10-11	.0	.0	.0	.2	.3	.0	.5	.0	.0	.0
12	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
13-16	.0	.0	.0	.0	.0	.0	.5	.0	.0	.4
17-19	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
20-22	.0	.0	.0	.3	.0	.0	.3	.0	.0	.0
23-25	.0	.0	.0	.0	.3	.0	.3	.0	.0	.0
26-32	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
33-40	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
41-48	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
49-60	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
61-70	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
71-86	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
87+	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
TOT PCT	.0	3.7	8.8	4.0	.6	.0	17.1	.0	2.3	6.1

HGT	1-3	4-10	11-21	22-33	34-47	48+	PCT	SE	PCT
<1	.0	.0	.0	.0	.0	.0	.0	.0	.0
1-2	.0	.3	.2	.0	.0	.0	.5	.0	.0
3-4	.0	.0	.2	.0	.0	.0	.2	.1	.2
5-6	.0	.0	.3	.0	.0	.0	.3	.0	.1
7	.0	.0	.0	.0	.0	.0	.0	.0	.0
8-9	.0	.0	.0	.0	.0	.0	.0	.0	.0
10-11	.0	.0	.0	.0	.0	.0	.0	.0	.0
12	.0	.0	.0	.0	.0	.0	.0	.0	.0
13-16	.0	.0	.0	.0	.0	.0	.0	.0	.0
17-19	.0	.0	.0	.0	.0	.0	.0	.0	.0
20-22	.0	.0	.0	.0	.0	.0	.0	.0	.0
23-25	.0	.0	.0	.0	.0	.0	.0	.0	.0
26-32	.0	.0	.0	.0	.0	.0	.0	.0	.0
33-40	.0	.0	.0	.0	.0	.0	.0	.0	.0
41-48	.0	.0	.0	.0	.0	.0	.0	.0	.0
49-60	.0	.0	.0	.0	.0	.0	.0	.0	.0
61-70	.0	.0	.0	.0	.0	.0	.0	.0	.0
71-86	.0	.0	.0	.0	.0	.0	.0	.0	.0
87+	.0	.0	.0	.0	.0	.0	.0	.0	.0
TOT PCT	.0	.3	.8	.0	.0	.0	1.1	.1	.3

AD-A044 426

NAVAL WEATHER SERVICE DETACHMENT ASHEVILLE N C F/6 4/2  
SUMMARY OF SYNOPTIC METEOROLOGICAL OBSERVATIONS (SSMO). AUSTRAL--ETC(U)  
SEP 77

F/G 4/2

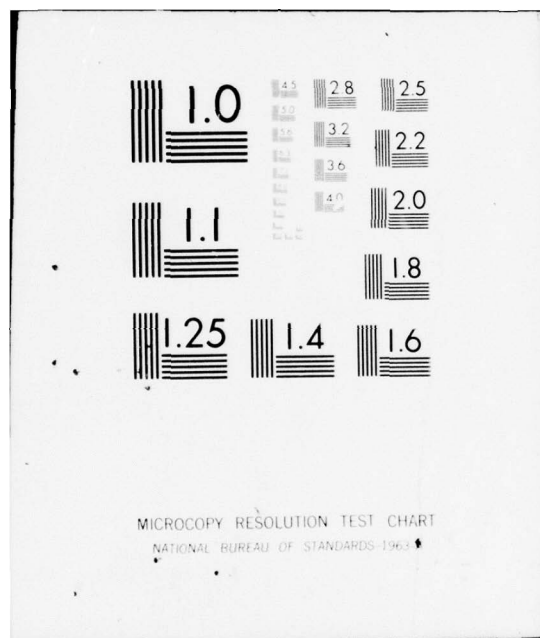
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PERIOD: (OVER-ALL) 1963-1970

JULY

AREA 0012 CAPE NELSON  
38.35 141.0E

TABLE 18 (CONT)

PCT FREQ OF WIND SPEED (KTS) AND DIRECTION VERSUS SEA HEIGHTS (FT)

HGT	S							SW							PCT
	1-3	4-10	11-21	22-33	34-47	48+	PCT	1-3	4-10	11-21	22-33	34-47	48+		
<1	.3	.3	.0	.0	.0	.0	.6	.0	.3	.0	.0	.0	.0	.3	
1-2	.0	2.6	.0	.0	.0	.0	2.6	.3	1.4	.3	.0	.0	.0	2.0	
3-4	.0	1.1	2.5	.3	.0	.0	4.0	.1	.7	4.1	.6	.0	.0	5.5	
5-6	.0	.2	.2	.0	.0	.0	.5	.0	.5	1.7	.3	.0	.0	2.4	
7	.0	.0	1.2	.0	.0	.0	1.2	.0	.0	1.2	1.3	.0	.0	2.5	
8-9	.0	.0	.6	.8	.0	.0	1.4	.0	.0	.0	1.6	.0	.0	1.6	
10-11	.0	.0	.3	.8	.0	.0	1.1	.0	.0	.3	.2	.0	.0	.5	
12	.0	.0	.0	.2	.0	.0	.2	.0	.0	.0	.1	.3	.0	.4	
13-16	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.3	.0	.0	.3	
17-19	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
20-22	.0	.0	.0	.0	.2	.0	.2	.0	.0	.0	.0	.1	.0	.1	
23-25	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
26-32	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
33-40	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
41-48	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
49-60	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
61-70	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
71-86	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
87+	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
TOT PCT	.3	4.3	4.9	2.2	.2	.0	11.9	.4	2.8	7.6	4.3	.4	.0	15.5	

HGT	W							NW							PCT	TOTAL PCT
	1-3	4-10	11-21	22-33	34-47	48+	PCT	1-3	4-10	11-21	22-33	34-47	48+			
<1	.0	.6	.0	.0	.0	.0	.6	.0	.6	.0	.0	.0	.0	1.2		
1-2	.0	1.4	.9	.0	.0	.0	2.3	.0	2.2	.0	.0	.0	.0	2.2		
3-4	.2	1.3	5.1	.5	.0	.0	7.2	.0	1.5	3.4	1.0	.0	.0	5.9		
5-6	.0	.5	4.3	.6	.0	.0	5.5	.0	.1	5.8	2.1	.0	.0	8.0		
7	.0	.0	1.3	1.4	.3	.0	3.0	.0	.0	1.5	1.9	.0	.0	3.4		
8-9	.0	.0	.3	.5	.5	.0	1.2	.0	.0	.0	1.8	.5	.0	2.2		
10-11	.0	.0	.3	.5	.3	.0	1.1	.0	.0	.0	.7	.0	.0	.7		
12	.0	.0	.0	.2	.0	.0	.2	.0	.0	.0	.4	.3	.0	.7		
13-16	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.9	.0	.0	.9		
17-19	.0	.0	.0	.3	.0	.0	.3	.0	.0	.0	.0	.0	.0	.0		
20-22	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0		
23-25	.0	.0	.3	.0	.0	.0	.3	.0	.0	.0	.0	.6	.0	.6		
26-32	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0		
33-40	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0		
41-48	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0		
49-60	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0		
61-70	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0		
71-86	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0		
87+	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0		
TOT PCT	.2	3.8	12.6	4.1	1.1	.0	21.8	.6	4.4	10.7	8.8	1.4	.0	25.9		

99.7
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WIND SPEED (KTS) VS SEA HEIGHT (FT)

HGT	0-3	4-10	11-21	22-33	34-47	48+	PCT	TOT
<1	2.1	2.7	.0	.0	.0	.0	4.8	085
1-2	.3	11.1	2.4	.0	.0	.0	13.9	
3-4	.3	6.3	19.3	2.4	.0	.0	28.3	
5-6	.0	1.5	16.6	4.8	.0	.0	22.9	
7	.0	.0	6.3	6.9	.3	.0	13.6	
8-9	.0	.0	.9	5.1	.9	.0	6.9	
10-11	.0	.0	.9	2.4	.6	.0	3.9	
12	.0	.0	.0	.9	.6	.0	1.5	
13-16	.0	.0	.0	2.1	.0	.0	2.1	
17-19	.0	.0	.0	.3	.0	.0	.3	
20-22	.0	.0	.0	.3	.3	.0	.6	
23-25	.0	.0	.3	.0	.9	.0	1.2	
26-32	.0	.0	.0	.0	.0	.0	.0	
33-40	.0	.0	.0	.0	.0	.0	.0	
41-48	.0	.0	.0	.0	.0	.0	.0	
49-60	.0	.0	.0	.0	.0	.0	.0	
61-70	.0	.0	.0	.0	.0	.0	.0	
71-86	.0	.0	.0	.0	.0	.0	.0	
87+	.0	.0	.0	.0	.0	.0	.0	
TOT PCT	2.7	21.7	46.7	25.3	3.6	.0	100.0	332

PERIOD: (OVER-ALL) 1949-1970

TABLE 19

PERCENT FREQUENCY OF WAVE HEIGHT (FT) VS WAVE PERIOD (SECONDS)

PERIOD (SEC)	<1	1-2	3-4	5-6	7	8-9	10-11	12	13-16	17-19	20-22	23-25	26-32	33-40	41-48	49-60	61-70	71-86	87+	TOTAL	MEAN HGT
<6	.6	3.2	3.2	3.0	1.7	1.3	.9	.4	.4	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.69	5
6-7	.0	.2	2.6	7.3	7.5	2.8	2.4	1.3	1.7	1.1	.6	.9	.0	.0	.0	.0	.0	.0	.0	131	8
8-9	.0	.9	1.5	4.9	6.5	6.0	4.1	1.1	1.5	.2	.4	.2	.0	.0	.0	.0	.0	.0	.0	127	8
10-11	.0	.0	.2	2.2	4.5	3.9	2.8	.9	2.2	.2	.0	.0	.0	.0	.0	.0	.0	.0	.0	78	9
12-13	.0	.0	.0	.2	1.5	1.5	1.5	.4	.4	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	25	9
>13	.0	.0	.0	.2	.0	.2	.2	.2	.2	.0	.2	.0	.0	.0	.0	.0	.0	.0	.0	.5	12
INDET	.3	25	37	92	106	75	59	.0	.0	.0	.2	.0	.0	.0	.0	.0	.0	.0	.0	28	6
TOTAL	.6	5.4	8.0	19.8	22.8	16.1	12.7	4.3	6.5	1.5	1.3	1.1	.0	.0	.0	.0	.0	.0	.0	100.0	8

PERIOD: (PRIMARY) 1895-1970  
(OVER-ALL) 1854-1970

AUGUST

AREA 0012 CAPE NELSON  
38.35 141.1E

TABLE 1

PERCENT FREQUENCY OF WEATHER OCCURRENCE BY WIND DIRECTION

WIND DIR	PRECIPITATION TYPE							OTHER WEATHER PHENOMENA							
	RAIN	RAIN SHWR	DRZL	FRZG PCPN	SNOW	OTHER FRZN PCPN	HAIL	PCPN AT OB TIME	PCPN PAST HOUR	THOR LTNG	FOG WD PCPN	FOG WD PCPN PAST HR	SMOKE HAZE	SPRAY BLWG DUST	NO SIG WEA
N	5.5	4.7	2.5	.0	.0	.0	.0	12.2	2.5	.5	3.9	.0	.2	.0	81.0
NE	4.3	6.5	2.3	.0	.0	.0	.0	13.1	1.0	.5	2.0	.0	.0	.0	83.4
E	13.4	5.8	2.7	.0	.0	.0	.0	21.9	.0	.0	4.5	.0	.0	.0	73.7
SE	4.6	16.2	1.2	.0	.0	.0	.0	22.0	.0	2.3	2.3	.0	.0	.0	73.4
S	4.2	17.0	1.5	.0	.0	.0	.0	22.6	6.2	.8	1.1	.0	.0	.0	70.0
SW	4.3	15.8	.8	.0	.0	.0	.6	21.6	5.4	.4	.4	.0	.1	.0	72.4
W	4.5	18.4	1.8	.0	.0	.0	3.0	27.3	3.8	1.9	1.1	.0	.6	.0	66.2
NW	7.0	12.5	1.0	.0	.0	.0	.0	20.5	3.7	.4	1.1	.0	.6	.0	74.1
VAR	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
CALM	.0	.0	.0	.0	.0	.0	.0	.0	14.3	.0	.0	.0	14.3	.0	71.4
TOT PCT	5.4	12.9	1.6	.0	.0	.0	.8	20.5	3.7	.6	1.7	.0	.4	.0	73.4
TOT OBS:	1314														

TABLE 2

PERCENT FREQUENCY OF WEATHER OCCURRENCE BY HOUR

HOUR (GMT)	PRECIPITATION TYPE							OTHER WEATHER PHENOMENA							
	RAIN	RAIN SHWR	DRZL	FRZG PCPN	SNOW	OTHER FRZN PCPN	HAIL	PCPN AT OB TIME	PCPN PAST HOUR	THOR LTNG	FOG WD PCPN	FOG WD PCPN PAST HR	SMOKE HAZE	SPRAY BLWG DUST	NO SIG WEA
0000Z	5.2	11.2	1.0	.0	.0	.0	.2	17.5	4.2	.2	2.2	.0	.5	.0	75.6
0600Z	4.9	12.0	1.2	.0	.0	.0	.9	19.1	4.0	.9	1.2	.0	.6	.0	74.7
1200Z	5.0	15.4	2.4	.0	.0	.0	.9	23.7	2.7	1.8	2.1	.0	.3	.0	70.4
1800Z	6.0	13.5	1.8	.0	.0	.0	1.4	22.3	3.5	.7	1.4	.0	.0	.0	72.3
TOT PCT	5.3	12.9	1.6	.0	.0	.0	.8	20.4	3.6	.9	1.8	.0	.4	.0	73.4
TOT OBS:	1345														

TABLE 3

PERCENTAGE FREQUENCY OF WIND DIRECTION BY SPEED AND BY HOUR

WIND DIR	WIND SPEED (KNOTS)							TOTAL OBS	PCT FREQ	MEAN SPD	HOUR (GMT)							
	0-3	4-10	11-21	22-33	34-47	48+					00	03	06	09	12	15	18	21
N	.5	5.0	7.7	3.7	1.2	*		18.2	17.0		19.8	19.8	16.5	14.0	17.2	20.4	17.2	15.6
NE	.3	3.8	3.3	1.2	.2	.1		8.9	13.7		6.6	11.7	6.8	11.0	9.3	9.7	9.3	11.5
E	.5	1.7	2.0	.4	.0	.0		4.7	11.5		4.7	5.5	5.3	3.4	4.5	4.8	3.8	1.0
SE	.4	1.5	1.2	.4	.0	.0		3.6	11.7		2.9	4.5	3.1	4.1	4.6	3.0	3.3	3.1
S	.8	2.5	3.8	1.5	.3	*		9.0	14.8		10.4	8.4	8.1	12.3	8.9	9.3	8.4	8.3
SW	.7	4.1	6.3	3.9	1.8	.2		17.0	18.6		18.5	13.6	20.7	15.8	15.2	15.0	17.9	13.5
W	.6	4.1	7.9	6.0	1.8	.1		20.6	19.2		19.4	18.4	20.7	21.9	23.2	19.8	21.7	22.9
NW	.2	3.5	7.8	4.4	1.3	.1		17.3	18.5		16.8	17.3	17.1	16.1	16.5	17.0	17.8	24.0
VAR	.0	.0	.0	.0	.0	.0		.0	.0		.0	.0	.0	.0	.0	.0	.0	.0
CALM	.8							.8	.0		.8	.6	1.7	1.4	.3	1.0	.6	.0
TOT OBS	98	526	802	433	132	13	2004		16.9		370	320	356	73	292	207	338	48
TOT PCT	4.9	26.2	40.0	21.6	6.6	.6		100.0			100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0

TABLE 3A

WIND DIR	0-6	WIND SPEED (KNOTS)				41+	TOTAL OBS	PCT FREQ	MEAN SPD	HOUR (GMT)				
		7-16	17-27	28-40	00					03	06	12	18	
N	2.0	7.8	5.3	2.3	.7		18.2	17.0	19.8	16.1	18.5	17.0		
NE	2.1	4.0	2.1	.4	.2		8.9	13.7	9.0	7.5	9.5	9.6		
E	1.5	1.8	1.2	.8	.0		4.7	11.5	5.1	5.0	4.7	3.5		
SE	1.0	1.6	.7	.2	.0		3.6	11.7	3.6	3.3	4.0	3.2		
S	1.7	3.7	2.6	.9	.1		9.0	14.8	9.5	8.8	9.1	8.4		
SW	2.0	6.3	4.8	3.1	.7		17.0	18.6	16.2	19.9	15.1	17.4		
W	1.9	6.9	7.0	4.2	.6		20.6	19.2	18.9	20.9	21.8	21.8		
NW	1.1	6.3	7.4	1.9	.6		17.3	18.5	17.1	17.0	16.7	18.6		
VAR	.0	.0	.0	.0	.0		.0	.0	.0	.0	.0	.0		
CALM	.8						.8	.0	.7	1.6	.6	.5		
TOT OBS	284	773	623	264	60	2004		16.9	690	629	499	386		
TOT PCT	14.2	38.6	31.1	13.2	3.0		100.0		100.0	100.0	100.0	100.0		



PERIOD: (PRIMARY) 1895-1970  
(OVER-ALL) 1854-1970

AUGUST

AREA 0012 CAPE NELSON  
38.35 141.1E

TABLE 4

PERCENTAGE FREQUENCY OF WIND SPEED BY HOUR (GMT)

WIND	CALM	1-3	4-10	11-21	22-33	34-47	48+	MEAN	PCT FREQ	TOTAL OBS
00003	.7	3.2	26.5	42.2	20.9	5.5	1.0	16.8	100.0	490
06009	1.6	4.9	27.5	37.8	21.4	6.5	.2	16.3	100.0	429
12015	.6	5.0	25.7	38.1	23.0	7.0	.5	17.2	100.0	499
18021	.5	3.4	25.1	41.2	21.2	8.0	.5	17.3	100.0	386
TOT	17	81	526	802	433	132	13	16.9		2004
PCT	.8	4.0	26.2	40.0	21.6	6.6	.6	100.0		

TABLE 5

PCT FREQ OF TOTAL CLOUD AMOUNT (EIGHTHS)  
BY WIND DIRECTION

WIND DIR	0-2	3-4	5-7	8 & OBSCD	TOTAL CLOUD OBS	MEAN CLOUD COVER
N	3.4	1.6	5.4	5.6		5.4
NE	2.0	.9	1.3	1.6		4.4
E	1.5	1.2	1.5	1.2		4.5
SE	.5	.4	.5	1.0		5.4
S	1.0	3.0	3.9	1.9		5.2
SW	1.5	4.5	11.8	4.5		5.6
W	2.5	4.2	8.4	3.8		5.2
NW	4.7	3.0	7.4	3.0		4.7
VAR	.0	.0	.0	.0		.0
CALM	.2	.5	.0	.4		4.5
TOT OBS	98	110	228	130	566	5.1
TOT PCT	17.3	19.4	40.3	23.0	100.0	

TABLE 6

PERCENTAGE FREQUENCY OF CEILING HEIGHTS (FT, NH > 4/8)  
AND OCCURRENCE OF NH < 5/8 BY WIND DIRECTION

000	150	300	600	1000	2000	3500	5000	6500	8000+	NH <5/8 ANY HGT	TOTAL OBS
149	299	599	999	1999	3499	4999	6499	7999			
.2	.0	.4	1.7	2.7	1.0	.5	.0	.0	.1	9.4	
.0	.0	.4	.8	.2	.4	.0	.4	.0	.0	4.0	
.0	.0	.2	.5	.8	.4	.1	.2	.0	.0	3.4	
.0	.0	.0	.2	.7	.4	.2	.0	.0	.0	1.0	
.0	.0	.0	.5	2.5	1.3	.5	.0	.0	.0	4.9	
.0	.0	.4	2.4	6.9	1.9	.7	.5	.0	.0	9.5	
.2	.2	.2	3.0	3.8	1.3	1.1	.0	.2	.0	9.0	
.0	.0	.6	2.6	2.2	1.7	.4	.0	.0	.2	10.5	
.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
.0	.0	.0	.0	.2	.0	.0	.0	.0	.0	.9	
.2	1	10	64	116	46	21	6	1	2	297	
.4	.2	1.8	11.3	20.5	8.1	3.7	1.1	.2	.4	52.5	
										566	
										100.0	

TABLE 7

CUMULATIVE PCT FREQ OF SIMULTANEOUS OCCURRENCE  
OF CEILING HEIGHT (NH > 4/8) AND VSBY (NM)

CEILING (FEET)	OR >10	OR >5	OR >2	OR >1	OR >1/2	OR >1/4	OR >50YD	OR >0
OR >6500	.5	.5	.5	.5	.5	.5	.5	.5
OR >6000	1.2	1.7	1.7	1.7	1.7	1.7	1.7	1.7
OR >5500	4.1	5.2	5.4	5.4	5.4	5.4	5.4	5.4
OR >5000	10.2	13.1	13.5	13.5	13.5	13.5	13.5	13.5
OR >4000	24.9	33.0	33.5	33.7	33.7	33.7	33.7	33.7
OR >3000	31.3	42.7	44.4	44.7	44.7	44.7	44.7	44.7
OR >2000	32.1	44.0	46.1	46.5	46.5	46.5	46.5	46.5
OR >1500	32.1	44.0	46.3	46.6	46.6	46.6	46.6	46.6
OR >1000	32.1	44.2	46.6	47.2	47.2	47.2	47.2	47.2
TOTAL	186	256	270	273	273	273	273	273

TOTAL NUMBER OF OBS: 579

PCT FREQ NH < 5/8: 52.8

TABLE 7A

PERCENTAGE FREQ OF LOW CLOUDS (EIGHTHS)

0	1	2	3	4	5	6	7	8	OBSCD	TOTAL OBS
7.7	9.4	11.1	12.9	11.1	8.2	11.4	10.2	17.8	.3	650

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PERIOD: (PRIMARY) 1895-1970  
(OVER-ALL) 1854-1970AREA 0012 CAPE NELSON  
38.35 141.1E

TABLE 8

PERCENT FREQ OF WIND DIRECTION VS OCCURRENCE OR NON-OCCURRENCE OF  
PRECIPITATION WITH VARYING VALUES OF VISIBILITY

VISBY (NM)		N	NE	E	SE	S	SW	W	NW	VAR	CALM	PCT	TOTAL OBS
<1/2	PCP	*	.0	.0	.0	.0	.0	.0	*	.0	.0	.1	
	NO PCP	.0	.0	.0	.0	.1	.0	.0	.0	.0	.0	.1	
	TOT %	*	.0	.0	.0	.1	.0	.0	*	.0	.0	.2	
1/2<1	PCP	.0	.0	.1	.0	.1	.1	.0	.0	.0	.0	.3	
	NO PCP	.6	.2	.2	.2	*	.1	.5	.3	.0	.0	2.0	
	TOT %	.6	.2	.3	.2	.2	.2	.5	.3	.0	.0	2.3	
1<2	PCP	.0	.1	.0	.0	.0	.0	.0	.1	.0	.0	.2	
	NO PCP	*	.0	.0	.0	.0	.2	.1	*	.0	.0	.3	
	TOT %	*	.1	.0	.0	.0	.2	.1	.1	.0	.0	.5	
2<5	PCP	.0	.2	.1	.1	.1	.2	.4	.2	.0	.0	1.2	
	NO PCP	.0	.0	.0	.0	.1	*	.1	.4	.0	.0	.6	
	TOT %	.0	.2	.1	.1	.2	.3	.5	.6	.0	.0	1.8	
5<10	PCP	1.8	.6	.6	.5	1.7	2.6	4.8	3.0	.0	.0	15.5	
	NO PCP	6.2	3.5	1.1	.9	3.2	4.4	7.3	6.7	.0	.1	33.4	
	TOT %	7.9	4.2	1.7	1.4	4.9	6.9	12.1	9.7	.0	.1	49.0	
10+	PCP	.2	.1	.2	.1	.4	1.0	.6	.5	.0	.0	3.1	
	NO PCP	7.5	2.8	2.1	1.5	4.4	9.4	7.7	7.4	.0	.5	43.2	
	TOT %	7.6	2.9	2.3	1.6	4.8	10.4	8.3	7.8	.0	.5	46.3	
TOT OBS													1313
TOT PCT		16.2	7.6	4.3	3.3	10.1	18.0	21.5	18.6	.0	.5	100.0	

TABLE 9

PERCENT FREQ OF WIND DIRECTION VS WIND SPEED  
WITH VARYING VALUES OF VISIBILITY

VISBY (NM)	SPD KTS	N	NE	E	SE	S	SW	W	NW	VAR	CALM	PCT	TOTAL OBS
<1/2	0-3	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
	4-10	.0	.0	.0	.0	.1	.0	.0	.0	.0	.0	.1	
	11-21	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
	22+	*	.0	.0	.0	.0	.0	.0	*	.0	.0	.1	
	TOT %	*	.0	.0	.0	.1	.0	.0	*	.0	.0	.1	
1/2<1	0-3	.0	.0	.0	*	*	.1	.1	.0	.0	.0	.3	
	4-10	.1	.0	.0	.0	.1	.1	.0	*	.0	.0	.2	
	11-21	.2	.1	.2	.1	.0	.0	.0	.1	.0	.0	.6	
	22+	.3	.1	.1	.0	.1	*	.3	.1	.0	.0	1.0	
	TOT %	.5	.2	.2	.1	.2	.2	.4	.3	.0	.0	2.1	
1<2	0-3	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
	4-10	.0	.1	.0	.0	.0	.0	.0	.0	.0	.0	.1	
	11-21	*	.0	.0	.0	.0	.0	.1	*	.0	.0	.1	
	22+	.0	.0	.0	.0	.0	.1	.0	.1	.0	.0	.2	
	TOT %	*	.1	.0	.0	.0	.1	.1	.1	.0	.0	.4	
2<5	0-3	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
	4-10	.1	.1	.0	.0	.0	*	.1	.1	.0	.0	.4	
	11-21	.0	.0	.0	.0	.1	.0	.1	.1	.0	.0	.3	
	22+	.1	.1	.1	.1	.0	.2	.4	.3	.0	.0	1.2	
	TOT %	.1	.2	.1	.1	.1	.2	.5	.6	.0	.0	1.9	
5<10	0-3	.1	.1	.2	.1	.4	.4	.4	*	.0	.1	1.9	
	4-10	1.1	1.4	.4	.3	1.0	1.0	1.5	1.8	.0	.0	8.6	
	11-21	3.6	1.2	.7	.8	1.9	1.9	3.9	3.6	.0	.0	17.4	
	22+	2.7	1.2	.3	.2	1.1	3.0	5.3	3.5	.0	.0	17.3	
	TOT %	7.5	3.9	1.6	1.3	4.4	6.3	11.1	8.9	.0	.1	45.1	
10+	0-3	.3	.1	.2	.2	.3	.4	.1	.2	.0	.8	2.7	
	4-10	3.4	2.0	1.3	1.1	1.6	2.9	2.3	2.0	.0	.0	16.6	
	11-21	3.2	1.1	.8	.4	2.4	4.6	4.0	4.1	.0	.0	20.6	
	22+	1.4	.3	.1	.3	.9	3.0	2.6	1.7	.0	.0	10.3	
	TOT %	8.3	3.4	2.5	2.0	5.2	11.0	9.1	8.0	.0	.8	50.2	
TOT OBS													1453
TOT PCT		16.5	7.8	4.4	3.5	10.0	17.9	21.1	17.9	.0	.8	100.0	

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PERIOD: (PRIMARY) 1895-1970  
(OVER-ALL) 1854-1970

AREA 0012 CAPE NELSON  
38.35 141.1E

TABLE 10

PERCENT FREQUENCY OF CEILING HEIGHTS (FEET, NH >4/8) AND  
OCCURRENCE OF NH <5/8 BY HOUR

HR	000	150	300	600	1000	2000	3500	5000	6500	8000+	TOTAL	NH <5/8 ANY HGT	TOTAL OBS
(GMT)	149	299	599	999	1999	3499	4999	6499	7999				
00003	.0	.0	2.7	11.8	17.7	7.5	3.2	.5	.0	1.1	44.6	55.4	186
06009	.6	.6	.6	12.7	20.2	7.5	4.0	1.2	.0	.0	47.4	52.6	173
12015	.0	.0	2.3	9.3	23.3	6.2	2.3	1.6	.8	.0	45.7	54.3	129
18021	1.6	.0	.8	6.4	16.0	9.6	4.0	1.6	.0	.0	40.0	60.0	125
TOT	3	1	10	64	118	47	21	7	1	2	274	339	613
PCT	.5	.2	1.6	10.4	19.2	7.7	3.4	1.1	.2	.3	44.7	55.3	100.0

TABLE 11

PERCENT FREQUENCY VS BY (NM) BY HOUR

HR	<1/2	1/2<1	1<2	2<5	5<10	10+	TOTAL OBS
(GMT)							
00003	.0	2.7	.2	2.2	45.7	49.2	451
06009	.0	1.7	1.1	2.0	42.0	53.2	355
12015	.3	2.4	.3	.8	48.2	48.0	371
18021	.3	2.0	.3	2.6	44.6	50.2	307
TOT	2	33	7	28	671	743	1484
PCT	.1	2.2	.5	1.9	45.2	50.1	100.0

TABLE 12

CUMULATIVE PCT FREQ OF RANGES OF VS BY (NM) AND/OR  
CEILING HGT (FEET, NH >4/8), BY HOUR

HR	<150 <500	<600 <1	<1000 <5	1000+ AND 5+	NH <5/8 AND 5+	TOTAL OBS
(GMT)						
00003	.0	3.4	17.8	31.0	51.1	174
06009	.6	1.8	17.1	33.5	49.4	164
12015	.0	2.5	12.4	36.4	51.2	121
18021	1.7	2.5	10.0	31.7	58.3	120
TOT	3	15	86	191	302	679
PCT	.5	2.6	14.9	33.0	52.2	100.0

TABLE 13

PERCENT FREQUENCY OF RELATIVE HUMIDITY BY TEMP

TEMP F	0-29	30-39	40-49	50-59	60-69	70-79	80-89	90-100	TOTAL OBS	PCT FREQ
65/69	.0	.0	.0	.0	.0	.1	.0	.0	1	.1
60/64	.0	.0	.3	.1	.7	.8	.1	.4	18	2.4
55/59	.0	.0	.0	.9	6.1	13.4	9.9	2.4	247	32.7
50/54	.0	.0	.3	1.5	10.3	18.1	21.2	6.1	434	57.5
45/49	.0	.0	.0	.3	1.7	2.6	2.0	.7	55	7.3
TOTAL	0	0	4	21	142	265	251	72	755	100.0
PCT	.0	.0	.5	2.8	18.8	35.1	33.2	9.5		

TABLE 14

PERCENT FREQUENCY OF WIND DIRECTION BY TEMP

N	NE	E	SE	S	SW	W	NW	VAR	CALM
65/69	.0	.0	.1	.0	.0	.0	.0	.0	.0
60/64	.7	.3	.1	.0	.3	.1	.8	.0	.1
55/59	8.3	2.0	1.9	.3	1.9	3.6	5.3	10.2	.0
50/54	6.7	3.0	1.3	1.9	8.3	14.2	13.4	8.1	.0
45/49	.5	.2	.4	.5	1.6	2.9	1.1	.1	.0
TOTAL	10.2	5.4	3.9	2.7	10.9	21.0	19.9	19.1	.0

TABLE 15

MEANS, EXTREMES AND PERCENTILES OF TEMP (DEG F) BY HOUR

HR	MAX	99%	95%	50%	5%	1%	MIN	MEAN	TOTAL OBS
(GMT)									
00003	66	61	59	54	50	47	45	54.1	676
06009	63	62	60	55	50	48	47	54.7	435
12015	61	59	58	54	49	48	45	53.5	491
18021	61	59	57	53	49	47	46	52.9	383
TOT	66	61	59	54	49	48	45	53.8	1985

TABLE 16

PERCENT FREQUENCY OF RELATIVE HUMIDITY BY HOUR

HR	0-29	30-59	60-69	70-79	80-89	90-100	MEAN	TOTAL OBS
(GMT)								
00003	.0	2.6	18.5	35.1	34.2	9.5	77	231
06009	.0	4.6	26.5	38.8	23.5	6.6	75	196
12015	.0	4.3	14.4	32.6	35.3	13.4	79	187
18021	.0	1.3	14.1	33.3	40.4	10.9	79	156
TOT	0	25	144	270	254	77	77	770

PERIOD: (PRIMARY) 1895-1970  
(OVER-ALL) 1854-1970

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AREA 0012 CAPE NELSON  
38.35 141.1E

TABLE 17

PCT FREQ OF AIR TEMPERATURE (DEG F) AND THE OCCURRENCE OF FOG (WITHOUT PRECIPITATION)  
VS AIR-SEA TEMPERATURE DIFFERENCE (DEG F)

AIR-SEA TMP DIF	45 48	49 52	53 56	57 60	61 64	65 68	TOT	W FOG	W0 FOG
11/13	.0	.0	.0	.0	.1	.0	1	.0	.1
7/8	.0	.0	.0	.0	.2	.0	2	.0	.2
6	.0	.0	.0	.2	.0	.1	3	.0	.3
5	.0	.0	.0	.5	.1	.0	7	.0	.6
4	.0	.0	.2	1.3	.3	.0	20	.1	1.6
3	.0	.0	.8	1.0	.3	.0	25	.1	2.0
2	.0	.2	2.0	2.7	.0	.0	58	.5	4.3
1	.0	.3	3.6	4.3	.2	.0	100	.1	8.3
0	.0	.9	9.3	3.2	.0	.0	160	.5	12.9
-1	.1	2.1	11.4	.8	.0	.0	173	.5	13.9
-2	.0	3.9	10.5	.5	.1	.0	180	.3	14.8
-3	.2	5.0	6.8	.0	.0	.0	144	.0	12.0
-4	.3	5.5	3.6	.0	.0	.0	113	.0	9.4
-5	.0	5.5	1.9	.0	.0	.0	89	.0	7.4
-6	.3	4.7	.3	.0	.0	.0	64	.0	5.3
-7/-8	.8	2.1	.4	.0	.0	.0	39	.0	3.3
-9/-10	.3	.7	.0	.0	.0	.0	12	.0	1.0
-11/-13	.2	.4	.0	.0	.0	.0	7	.0	.6
-14/-16	.0	.1	.0	.0	.0	.0	1	.0	.1
TOTAL	26	375	609	173	14	1	1198	2.0	1174
PCT	2.2	31.3	50.8	14.4	1.2	.1	100.0	2.0	98.0

PERIOD: (OVER-ALL) 1963-1970

TABLE 18

PCT FREQ OF WIND SPEED (KTS) AND DIRECTION VERSUS SEA HEIGHTS (FT)

HGT	1-3	4-10	11-21	22-33	34-47	48+	PCT	1-3	4-10	11-21	22-33	34-47	48+	PCT
<1	.6	.8	.0	.0	.0	.0	1.3	.3	.6	.0	.0	.0	.0	.8
1-2	.0	3.0	.0	.0	.0	.0	3.0	.0	1.1	.0	.0	.0	.0	1.1
3-4	.0	1.7	2.4	.3	.0	.0	4.4	.0	1.5	.9	.0	.0	.0	2.4
5-6	.0	.3	1.0	1.0	.0	.0	2.4	.3	.0	.3	.3	.0	.0	.9
7	.0	.0	.0	.4	.0	.0	.4	.0	.0	.3	.0	.0	.0	.3
8-9	.0	.0	.0	.8	.0	.0	.8	.0	.0	.0	.3	.0	.0	.3
10-11	.0	.0	.0	1.0	.0	.0	1.0	.0	.0	.0	.1	.0	.0	.1
12	.0	.0	.0	.8	.2	.0	1.0	.0	.0	.0	.0	.0	.0	.0
13-16	.0	.0	.0	.3	.0	.0	.3	.0	.0	.0	.0	.0	.0	.0
17-19	.0	.0	.0	.2	.0	.0	.2	.0	.0	.0	.0	.0	.0	.0
20-22	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
23-25	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
26-32	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
33-40	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
41-48	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
49-60	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
61-70	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
71-86	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
87+	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
TOT PCT	.6	5.8	3.5	4.9	.2	.0	14.9	.6	3.1	1.5	.6	.0	.0	5.8

HGT	1-3	4-10	11-21	22-33	34-47	48+	PCT	1-3	4-10	11-21	22-33	34-47	48+	PCT
<1	.3	.6	.0	.0	.0	.0	.8	.1	.0	.0	.0	.0	.0	.1
1-2	.0	1.7	.2	.0	.0	.0	1.9	.0	.4	.4	.0	.0	.0	.8
3-4	.0	.6	1.0	.0	.0	.0	1.6	.0	.6	.3	.0	.0	.0	1.0
5-6	.0	.0	.3	.0	.0	.0	.3	.0	.0	.0	.3	.0	.0	.3
7	.0	.0	.5	.0	.0	.0	.5	.0	.0	.1	.0	.0	.0	.1
8-9	.0	.0	.0	.8	.0	.0	.8	.0	.0	.0	.0	.0	.0	.0
10-11	.0	.0	.0	.6	.0	.0	.6	.0	.0	.0	.0	.0	.0	.0
12	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
13-16	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
17-19	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
20-22	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
23-25	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
26-32	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
33-40	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
41-48	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
49-60	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
61-70	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
71-86	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
87+	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
TOT PCT	.3	2.8	2.0	.6	.0	.0	5.6	.1	1.0	.8	.3	.0	.0	2.2

PERIOD: (OVER-ALL) 1963-1970

AUGUST

AREA 0012, CAPE NELSON  
38.35 141.1E

TABLE 18 (CONT)

PCT FREQ OF WIND SPEED (KTS) AND DIRECTION VERSUS SEA HEIGHTS (FT)

HGT	1-3	4-10	11-21	22-33	34-47	48+	PCT	1-3	4-10	11-21	22-33	34-47	48+	PCT
<1	.0	.3	.0	.0	.0	.0	.8	.0	.9	.0	.0	.0	.0	.9
1-2	.0	1.6	1.3	.0	.0	.0	2.8	.3	3.2	.3	.0	.0	.0	3.8
3-4	.0	1.3	1.0	.3	.0	.0	2.6	.0	2.1	1.4	.0	.0	.0	3.5
5-6	.0	.3	2.6	1.0	.0	.0	3.9	.0	.8	3.9	1.2	.0	.0	5.9
7	.0	.0	.4	.0	.0	.0	.4	.0	.0	1.5	1.9	.0	.0	3.5
8-9	.0	.0	.0	.0	.0	.0	.0	.0	.0	.3	2.7	.3	.0	3.3
10-11	.0	.0	.0	.0	.0	.0	.0	.0	.1	.6	.6	1.1	.0	2.4
12	.0	.0	.3	.0	.0	.0	.3	.0	.0	.0	.3	.3	.0	.6
13-16	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.3	.8	.0	1.1
17-19	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
20-22	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
23-25	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
26-32	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
33-40	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
41-48	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
49-60	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
61-70	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
71-86	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
87+	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
TOT PCT	.5	3.4	5.6	1.3	.0	.0	10.8	.3	7.2	8.0	7.0	2.5	.0	24.9

HGT	1-3	4-10	11-21	22-33	34-47	48+	PCT	1-3	4-10	11-21	22-33	34-47	48+	PCT	TOTAL PCT
<1	.0	.5	.0	.0	.0	.0	.5	.0	.1	.0	.0	.0	.0	.1	
1-2	.0	1.5	.0	.0	.0	.0	1.5	.0	1.7	.6	.0	.0	.0	2.7	
3-4	.0	1.3	2.7	.0	.0	.0	4.0	.0	1.0	1.0	.3	.0	.0	2.3	
5-6	.0	.6	4.0	2.8	.0	.0	7.3	.0	.6	2.4	.6	.0	.0	3.5	
7	.0	.5	1.2	1.4	.3	.0	3.3	.0	.0	1.1	.7	.6	.0	2.4	
8-9	.0	.0	.5	1.5	.8	.0	2.8	.3	.3	.3	.3	.0	.0	1.1	
10-11	.0	.5	.0	.2	.3	.0	1.0	.0	.0	.0	1.2	.0	.0	1.2	
12	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.1	.0	.1	
13-16	.0	.0	.0	.0	.2	.0	.2	.0	.0	.0	.3	.1	.0	.3	
17-19	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.1	.0	.0	.1	
20-22	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.3	.0	.0	.3	
23-25	.0	.0	.0	.2	.0	.0	.2	.0	.0	.0	.1	.0	.0	.1	
26-32	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
33-40	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
41-48	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
49-60	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
61-70	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
71-86	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
87+	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
TOT PCT	.0	4.8	8.3	6.0	1.6	.0	20.8	.3	3.6	5.3	3.8	.7	.0	13.6	98.6

WIND SPEED (KTS) VS SEA HEIGHT (FT)

HGT	0-3	4-10	11-21	22-33	34-47	48+	PCT	TOT OBS
<1	4.6	3.8	.0	.0	.0	.0	8.4	
1-2	.8	14.1	2.7	.0	.0	.0	17.6	
3-4	.0	9.7	10.5	.8	.0	.0	21.1	
5-6	.3	2.4	14.1	7.0	.0	.0	23.8	
7	.0	.5	4.9	4.3	.8	.0	10.5	
8-9	.3	.3	1.1	5.4	1.1	.0	8.1	
10-11	.0	.5	.5	3.5	1.4	.0	5.9	
12	.0	.0	.3	1.1	.5	.0	1.9	
13-16	.0	.0	.0	.8	1.1	.0	1.9	
17-19	.0	.0	.0	.3	.0	.0	.3	
20-22	.0	.0	.0	.3	.0	.0	.3	
23-25	.0	.0	.0	.3	.0	.0	.3	
26-32	.0	.0	.0	.0	.0	.0	.0	
33-40	.0	.0	.0	.0	.0	.0	.0	
41-48	.0	.0	.0	.0	.0	.0	.0	
49-60	.0	.0	.0	.0	.0	.0	.0	
61-70	.0	.0	.0	.0	.0	.0	.0	
71-86	.0	.0	.0	.0	.0	.0	.0	
87+	.0	.0	.0	.0	.0	.0	.0	
TOT PCT	5.9	31.4	34.1	23.8	4.9	.0	100.0	370

PERIOD: (OVER-ALL) 1949-1970

TABLE 19

PERCENT FREQUENCY OF WAVE HEIGHT (FT) VS WAVE PERIOD (SECONDS)

PERIOD (SEC)	<1	1-2	3-4	5-6	7	8-9	10-11	12	13-16	17-19	20-22	23-25	26-32	33-40	41-48	49-60	61-70	71-86	87+	TOTAL	MEAN HGT
<6	1.2	3.1	5.0	3.9	1.0	.2	.4	.4	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	74
6-7	.0	.4	3.1	8.9	4.3	2.7	2.7	.6	1.2	.2	.4	.0	.0	.0	.0	.0	.0	.0	.0	.0	119
8-9	.0	.2	1.0	2.9	7.0	4.8	3.3	1.2	1.7	1.0	.4	.8	.4	.0	.0	.0	.0	.0	.0	.0	121
10-11	.0	.2	.4	1.9	1.7	3.1	2.5	1.9	2.1	.4	.4	.8	.4	.0	.0	.0	.0	.0	.0	.0	75
12-13	.0	.0	1.0	.4	.8	.8	2.1	.6	1.7	.0	.6	.2	.0	.0	.0	.0	.0	.0	.0	.0	40
>13	.0	.0	.0	.2	.2	.2	.8	.0	.4	.4	.4	.4	.2	.0	.0	.0	.0	.0	.0	.0	21
INDET	.4	.8	1.2	1.0	.6	1.2	.2	.0	.4	.2	.0	.2	.0	.0	.0	.0	.0	.0	.0	.0	32
TOTAL	.8	23	57	93	76	63	58	23	41	11	12	7	11	0	0	0	0	0	0	0	483
PCT	1.7	4.8	11.8	19.3	15.7	13.0	12.0	4.8	8.5	2.3	2.5	1.4	2.3	.0	.0	.0	.0	.0	.0	.0	100.0



PERIOD: (PRIMARY) 1897-1970  
(OVER-ALL) 1854-1970

SEPTEMBER

AREA 0012 CAPE NELSON  
38.35 141.0E

TABLE 1

PERCENT FREQUENCY OF WEATHER OCCURRENCE BY WIND DIRECTION

PRECIPITATION TYPE										OTHER WEATHER PHENOMENA						
WIND DIR	RAIN	RAIN SHWR	DRZL	FRZG PCPN	SNOW	OTHER FRZN PCPN	HAIL	PCPN AT DB TIME	PCPN PAST HOUR	THDR LTNG	FGG WD PCPN	FGG WD PCPN PAST HR	SMOKE HAZE	SPRAY BLWG DUST	ND SIG WEA	
N	8.5	3.9	.6	.0	.0	.0	.0	13.1	1.2	3.3	.9	.0	.5	.0	83.2	
NE	7.2	1.8	1.1	.0	.0	.0	.0	10.1	.2	.9	.4	.0	.0	.0	89.2	
E	7.7	5.7	1.4	.0	.0	.0	.0	14.8	1.4	1.0	5.7	.0	.0	.0	78.0	
SE	.0	13.3	.0	.0	.0	.0	.0	13.3	2.1	.0	1.0	.0	.0	.0	83.0	
S	4.8	12.9	1.0	.0	.0	.0	.7	19.4	3.3	.0	.0	.0	1.0	.0	76.3	
SW	2.6	16.9	2.6	.0	.0	.0	.6	22.7	6.7	.5	.0	.0	.0	.0	70.1	
W	4.5	15.9	2.3	.0	.0	.0	.4	23.1	5.4	1.1	.2	.0	.0	.0	71.0	
NW	4.3	12.0	2.0	.0	.0	.0	.0	17.8	2.8	.5	1.0	.0	.1	.0	78.3	
VAR	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
CALM	10.0	.0	.0	.0	.0	.0	.0	10.0	.0	.0	.0	.0	.0	.0	90.0	
TOT PCT	5.0	11.5	1.7	.0	.0	.0	.3	18.3	3.5	1.0	.7	.0	.2	.0	77.0	
TOT OBS:	1187															

TABLE 2

PERCENT FREQUENCY OF WEATHER OCCURRENCE BY HOUR

HOUR (GMT)	PRECIPITATION TYPE							OTHER WEATHER PHENOMENA							
	RAIN	RAIN SHWR	DRZL	FRZG PCPN	SNOW	OTHER FRZN PCPN	HAIL	PCPN AT DB TIME	PCPN PAST HOUR	THOR LTNG	FGG WD PCPN	FGG WD PCPN PAST HR	SMOKE HAZE	SPRAY BLWG DUST	ND SIG WEA
00003	4.6	12.1	1.7	.0	.0	.0	.6	19.0	2.9	.0	.3	.0	.3	.0	77.5
06009	3.8	10.1	1.0	.0	.0	.0	.0	14.6	3.8	.7	1.0	.0	.7	.0	79.8
12015	4.9	13.8	2.6	.0	.0	.0	.3	21.6	2.6	2.6	.7	.0	.0	.0	73.8
18021	7.0	9.3	1.5	.0	.0	.0	.0	17.8	4.8	1.1	.7	.0	.0	.0	76.3
TOT PCT	5.0	11.4	1.7	.0	.0	.0	.2	18.4	3.5	1.1	.7	.0	.2	.0	76.8
TOT OBS:	1209														

TABLE 3

PERCENTAGE FREQUENCY OF WIND DIRECTION BY SPEED AND BY HOUR

WIND DIR	WIND SPEED (KNOTS)							TOTAL OBS	PCT FREQ	MEAN SPD	HOUR (GMT)							
	0-3	4-10	11-21	22-33	34-47	48+					00	03	06	09	12	15	18	21
N	.6	4.0	6.3	2.6	.2	*		13.8	15.2	16.0	14.4	11.9	12.0	9.3	14.5	15.7	21.9	
NE	.5	4.6	3.1	1.0	*	.0		9.3	11.6	9.9	11.2	7.1	7.0	8.5	9.9	9.7	10.3	
E	.5	2.3	1.3	.3	.0	.0		4.4	9.8	4.2	3.2	3.6	9.0	4.7	5.9	4.9	2.5	
SE	.4	1.8	1.7	.2	.0	.0		4.1	10.8	3.0	4.1	5.4	10.0	4.5	4.3	3.2	1.3	
S	.8	2.9	3.5	1.3	.1	.0		8.7	13.2	9.9	8.8	9.5	13.0	9.5	8.9	4.9	8.8	
SW	.5	4.6	6.9	3.5	1.0	.1		16.7	16.8	14.4	14.7	16.8	23.0	17.5	18.4	18.8	11.3	
W	.6	4.4	10.5	6.1	1.9	.2		23.6	18.9	26.1	22.3	26.7	16.0	27.0	20.2	20.1	15.0	
NW	.5	5.1	8.0	3.7	.7	.1		18.2	16.6	16.3	19.9	18.0	10.0	16.6	16.8	20.8	26.9	
VAR	.0	.0	.0	.0	.0	.0		.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
CALM	1.3							1.3	.0	.3	1.4	1.0	.0	2.2	1.0	1.9	2.5	
TOT OBS	121	619	860	390	83	10	2083		15.5	372	357	386	50	317	196	365	40	
TOT PCT	5.8	29.7	41.3	18.7	4.0	.5		100.0		100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	

TABLE 3A

WIND DIR	0-6	WIND SPEED (KNOTS)				41+	TOTAL OBS	PCT FREQ	MEAN SPD	HOUR (GMT)			
		7-16	17-27	28-40	00 03					06 09	12 15	18 21	
N	1.9	5.7	5.1	.9	.1		13.8	15.2	15.2	11.9	11.3	16.3	
NE	2.2	4.9	2.0	.2	*		9.3	11.6	10.5	7.1	9.1	9.7	
E	1.5	2.2	.7	.0	.0		4.4	9.8	3.7	4.2	5.2	4.7	
SE	1.2	2.0	.8	*	.0		4.1	10.8	3.5	5.9	4.4	3.0	
S	2.0	3.7	2.4	.6	.0		8.7	13.2	9.4	9.9	9.3	5.2	
SW	2.3	6.2	5.8	2.0	.4		16.7	16.8	14.5	17.5	17.8	18.0	
W	2.0	8.4	8.2	4.3	.7		23.6	18.9	24.2	25.5	24.4	19.6	
NW	2.0	7.7	6.2	1.8	.6		18.2	16.6	18.1	17.1	16.7	21.4	
VAR	.0	.0	.0	.0	.0		.0	.0	.0	.0	.0	.0	
CALM	1.3						1.3	.0	.8	.9	1.8	2.0	
TOT OBS	362	851	649	204	37	2083		15.5	729	436	513	405	
TOT PCT	16.4	40.9	31.2	9.8	1.8		100.0		100.0	100.0	100.0	100.0	

# SEPTEMBER

PERIOD: (PRIMARY) 1897-1970  
(OVER-ALL) 1854-1970

AREA 0012 CAPE NELSON  
38.35 141.0E

TABLE 4

PERCENTAGE FREQUENCY OF WIND SPEED BY HOUR (GMT)

HOUR	CALM	1-3	4-10	WIND SPEED (KNOTS)			48+	MEAN	PCT FREQ	TOTAL OBS
				11-21	22-33	34-47				
00603	.8	3.8	28.8	42.8	19.1	4.1	.5	15.9	100.0	729
06009	.9	3.9	29.8	42.9	18.3	3.4	.7	15.3	100.0	436
12015	1.8	6.0	29.6	39.2	18.9	4.5	.0	15.1	100.0	513
18021	2.0	4.4	31.4	39.5	18.3	4.5	.7	15.4	100.0	405
TOT	27	94	619	860	390	183	10	15.5		2083
PCT	1.3	4.5	29.7	41.3	18.7	4.0	.5	100.0		

TABLE 5

PCT FREQ OF TOTAL CLOUD AMOUNT (EIGHTHS)  
BY WIND DIRECTION

WIND DIR	0-2	3-4	5-7	8 & OBS	TOTAL OBS	MEAN CLOUD COVER
N	4.4	2.3	3.6	3.3		4.5
NE	2.1	1.8	2.4	2.9		4.9
E	1.3	.8	1.1	.9		4.6
SE	.6	.6	1.1	1.0		5.2
S	.8	2.4	4.0	2.1		5.4
SW	2.2	4.8	7.3	2.3		4.9
W	4.2	5.5	11.1	4.8		5.2
NW	4.6	3.0	6.8	3.3		4.7
VAR	.0	.0	.0	.0		.3
CALM	.9	.0	.0	.0		.4
TOT OBS	140	140	248	137	665	4.9
TOT PCT	21.1	21.1	37.3	20.6	100.0	

TABLE 6

PERCENTAGE FREQUENCY OF CEILING HEIGHTS (FT, NH >4/8)  
AND OCCURRENCE OF NH <5/8 BY WIND DIRECTION

000	150	300	600	1000	2000	3500	5000	6500	8000+	NH <5/8	TOTAL
149	299	599	999	1999	3499	4999	6499	7999		ANY HGT	OBS
.0	.0	.0	.6	2.4	.2	.3	.0	.2	.1	9.8	
.0	.0	.0	.4	1.5	.6	1.1	.0	.2	.0	5.6	
.0	.0	.0	.4	.5	.5	.3	.0	.2	.0	2.3	
.0	.0	.0	.2	.8	.4	.1	.0	.0	.0	1.8	
.0	.0	.0	.5	2.4	1.1	.6	.3	.0	.0	4.4	
.0	.2	.0	.7	4.3	1.4	1.1	.3	.0	.2	8.6	
.0	.0	.2	2.4	6.7	2.0	1.4	.6	.1	.0	12.1	
.0	.2	.6	1.4	3.3	.7	.4	.2	.3	.5	10.2	
.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.9	
.0	2	5	43	145	44	35	9	6	5	371	665
.0	.3	.8	6.5	21.8	6.6	5.3	1.4	.9	.8	55.8	100.0

TABLE 7

CUMULATIVE PCT FREQ OF SIMULTANEOUS OCCURRENCE  
OF CEILING HEIGHT (NH >4/8) AND VSBY (NM)

CEILING (FEET)	VSBY (NM)							
	>10	>5	>2	>1	>1/2	>1/4	>50YD	>0
>OR >6500	1.6	1.6	1.6	1.6	1.6	1.6	1.6	1.6
>OR >5000	3.0	3.0	3.1	3.1	3.1	3.1	3.1	3.1
>OR >3500	7.6	8.1	8.4	8.4	8.4	8.4	8.4	8.4
>OR >2000	13.5	14.8	15.1	15.1	15.1	15.1	15.1	15.1
>OR >1000	30.1	35.4	36.4	36.4	36.4	36.6	36.6	36.6
>OR >600	34.4	41.3	42.8	42.8	42.8	43.0	43.0	43.0
>OR >300	34.8	42.1	43.6	43.6	43.6	43.7	43.7	43.7
>OR >150	35.0	42.2	43.9	43.9	43.9	44.0	44.0	44.0
>OR >0	35.0	42.2	43.9	43.9	43.9	44.0	44.0	44.0
TOTAL	236	285	296	296	296	297	297	297

TOTAL NUMBER OF OBS: 675

PCT FREQ NH <5/8: 56.0

TABLE 7A

PERCENTAGE FREQ OF LOW CLOUDS (EIGHTHS)

0	1	2	3	4	5	6	7	8	9	TOTAL OBS
11.4	9.5	10.4	13.8	9.4	7.9	12.4	8.8	16.3	.0	747

SEPTEMBER

PERIOD: (PRIMARY) 1897-1970  
(OVER-ALL) 1854-1970

AREA 0012 CAPE NELSON  
38.35 141.0E

TABLE 8

PERCENT FREQ OF WIND DIRECTION VS OCCURRENCE OR NON-OCCURRENCE OF  
PRECIPITATION WITH VARYING VALUES OF VISIBILITY

VSBY (NM)		N	NE	E	SE	S	SW	W	NW	VAR	CALM	PCT	TOTAL OBS
<1/2	PCP	*	*	.0	.0	.0	.0	.1	.0	.0	.0	.2	
	NO PCP	.1	.0	.0	.0	.0	.0	.0	.0	.0	.0	.1	
	TOT %	.1	*	.0	.0	.0	.0	.1	.0	.0	.0	.3	
1/2<1	PCP	.0	.1	.0	.0	.1	.0	.2	*	.0	.0	.4	
	NO PCP	.1	*	.2	*	.0	.0	*	.2	.0	.0	.6	
	TOT %	.1	.1	.2	*	.1	.0	.3	.2	.0	.0	1.0	
1<2	PCP	.1	.1	.0	.0	.0	.0	.0	.0	.0	.0	.2	
	NO PCP	.0	.1	.0	.0	.0	.0	.0	.0	.0	.0	.1	
	TOT %	.1	.2	.0	.0	.0	.0	.0	.0	.0	.0	.3	
2<5	PCP	.1	.1	.0	.0	.0	.2	.3	.3	.0	.0	1.0	
	NO PCP	.1	.1	.0	.0	.0	.3	.3	.1	.0	.0	.9	
	TOT %	.3	.2	.0	.0	.0	.5	.6	.4	.0	.0	1.9	
5<10	PCP	.9	.4	.5	.5	1.1	2.8	3.7	2.2	.0	.0	12.0	
	NO PCP	4.2	2.9	.9	1.6	2.2	4.1	5.5	4.7	.0	.2	26.4	
	TOT %	5.1	3.3	1.4	2.0	3.3	6.9	9.2	6.9	.0	.2	38.4	
10+	PCP	.6	.2	.2	.1	.5	.9	1.2	.6	.0	.1	4.5	
	NO PCP	7.5	5.3	2.6	2.0	4.9	8.7	12.5	9.5	.0	.6	53.7	
	TOT %	8.2	5.6	2.8	2.0	5.4	9.7	13.7	10.1	.0	.7	58.1	
TOT OBS													
TOT PCT													
		13.9	9.4	4.4	4.1	8.8	17.1	23.9	17.6	.0	.8	100.0	1187

TABLE 9

PERCENT FREQ OF WIND DIRECTION VS WIND SPEED  
WITH VARYING VALUES OF VISIBILITY

VSBY (NM)	SPD KTS	N	NE	E	SE	S	SW	W	NW	VAR	CALM	PCT	TOTAL OBS
<1/2	0-3	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
	4-10	.1	*	.0	.0	.0	.0	.0	.0	.0	.0	.1	
	11-21	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
	22+	.0	.0	.0	.0	.0	.0	.1	.0	.0	.0	.1	
	TOT %	.1	*	.0	.0	.0	.0	.1	.0	.0	.0	.2	
1/2<1	0-3	*	.0	.0	.0	.0	.0	.0	*	.0	.0	.1	
	4-10	.0	.0	.1	*	.0	.0	*	*	.0	.0	.2	
	11-21	.1	.1	*	.0	.1	.0	.1	.0	.0	.0	.4	
	22+	.0	.0	.0	.0	.0	.0	.1	.1	.0	.0	.2	
	TOT %	.1	.1	.1	*	.1	.0	.2	.2	.0	.0	1.0	
1<2	0-3	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
	4-10	.0	.1	*	*	.0	.0	.0	.0	.0	.0	.1	
	11-21	.1	.1	.0	.0	*	*	.0	.0	.0	.0	.2	
	22+	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
	TOT %	.1	.1	*	*	*	*	.0	.0	.0	.0	.4	
2<5	0-3	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
	4-10	.0	.0	.0	.0	.0	.1	.0	.1	.0	.0	.3	
	11-21	.2	.1	.0	.0	.0	.0	.4	.2	.0	.0	.9	
	22+	.0	.1	.0	.0	.0	.3	.3	.1	.0	.0	.8	
	TOT %	.2	.2	.0	.0	.0	.5	.7	.4	.0	.0	2.0	
5<10	0-3	.1	.1	.1	.0	.1	.1	.1	.1	.0	.2	1.0	
	4-10	.9	1.3	.4	.7	.8	1.1	.4	1.5	.0	.4	7.3	
	11-21	2.3	1.1	.7	1.0	1.5	2.7	4.1	3.0	.0	.0	16.5	
	22+	1.4	.4	.1	.1	.5	2.5	3.9	1.9	.0	.0	10.8	
	TOT %	4.8	3.0	1.4	1.8	2.9	6.4	8.5	6.5	.0	.2	35.5	
10+	0-3	.2	.4	.0	.3	.5	.2	.3	.1	.0	.8	2.7	
	4-10	3.3	3.5	2.1	1.4	2.1	3.1	3.5	2.9	.0	.0	21.9	
	11-21	4.0	1.7	.9	.5	1.8	4.8	7.3	6.0	.0	.0	27.0	
	22+	1.6	.3	.3	.1	1.0	1.7	3.0	1.3	.0	.0	9.3	
	TOT %	9.0	5.9	3.3	2.3	5.3	9.9	14.1	10.3	.0	.8	60.9	
TOT OBS													
TOT PCT													
		14.3	9.4	4.9	4.2	8.4	16.8	23.6	17.4	.0	1.0	100.0	1356

SEPTEMBER

PERIOD: (PRIMARY) 1897-1970  
(OVER-ALL) 1854-1970

AREA 0012 CAPE NELSON  
38.35 141.0E

TABLE 10

PERCENT FREQUENCY OF CEILING HEIGHTS (FEET, NH >4/8) AND  
OCCURRENCE OF NH <5/8 BY HOUR

HR	000	150	300	600	1000	2000	3500	5000	6500	8000+	TOTAL	NH <5/8 ANY HGT	TOTAL OBS
(GMT)	149	299	599	999	1999	3499	4999	6499	7999				
00003	.0	.5	1.9	8.2	20.7	7.2	5.3	1.9	1.4	1.0	48.1	51.9	208
06009	.0	.5	.5	7.5	18.7	8.6	4.3	1.6	.5	.5	42.8	57.2	187
12015	.0	.0	.0	4.5	21.2	2.6	6.4	1.9	.6	.6	37.8	62.2	156
18021	.0	.0	.0	3.3	22.2	6.5	4.6	.0	.7	.7	37.9	62.1	153
TOT	0	2	5	43	145	45	36	10	6	5	297	407	704
PCT	.0	.3	.7	6.1	20.6	6.4	5.1	1.4	.9	.7	42.2	57.8	100.0

TABLE 11

PERCENT FREQUENCY VSBY (NM) BY HOUR

HR	<1/2	1/2<1	1<2	2<5	5<10	10+	TOTAL
(GMT)							OBS
00003	.2	.5	.5	2.5	36.7	59.6	403
06009	.0	1.5	.6	.9	30.5	66.5	328
12015	.6	1.2	.3	1.7	41.0	55.2	346
18021	.0	1.0	.3	2.7	33.6	62.5	301
TOT	3	14	6	27	491	837	1378
PCT	.2	1.0	.4	2.0	35.6	60.7	100.0

TABLE 12

CUMULATIVE PCT FREQ OF RANGES OF VSBY (NM) AND/OR  
CEILING HGT (FEET, NH >4/8), BY HOUR

HR	<150	<600	<1000	1000+	NH <5/8	TOTAL
(GMT)	<500D	<1	<5	AND5+	AND 5+	OBS
00003	.0	3.1	13.3	38.8	48.0	196
06009	.0	1.1	8.9	35.6	55.6	180
12015	.0	.7	6.0	33.3	60.7	150
18021	.0	.0	6.0	32.9	61.1	149
TOT	0	9	60	239	376	675
PCT	.0	1.3	8.9	35.4	55.7	100.0

TABLE 13

PERCENT FREQUENCY OF RELATIVE HUMIDITY BY TEMP

TEMP F	0-29	30-39	40-49	50-59	60-69	70-79	80-89	90-100	TOTAL	PCT
									OBS	FREQ
70/74	.0	.0	.0	.0	.1	.0	.0	.0	1	.1
65/69	.0	.0	.1	.2	.4	.0	.2	.0	8	1.0
60/64	.0	.0	.0	.4	2.9	2.9	1.0	.4	62	7.6
55/59	.0	.0	.5	1.6	5.3	14.3	16.1	5.3	350	43.0
50/54	.0	.0	.1	1.7	10.9	11.2	13.9	5.8	355	43.6
45/49	.0	.0	.0	.0	.7	2.1	.9	.9	37	4.5
40/44	.0	.0	.0	.0	.0	.0	.1	.0	1	.1
TOTAL	0	0	6	32	166	248	262	100	814	100.0
PCT	.0	.0	.7	3.9	20.4	30.5	32.2	12.3		

TABLE 14

PERCENT FREQUENCY OF WIND DIRECTION BY TEMP

N	NE	E	SE	S	SW	W	NW	VAR	CALM
.0	.0	.0	.0	.0	.0	.1	.0	.0	.0
.2	.2	.0	.0	.0	.0	.1	.3	.0	.1
2.6	1.7	.3	.0	.2	.3	.6	1.9	.0	.0
7.1	4.2	2.1	1.3	1.6	4.4	11.6	10.2	.0	.5
2.8	2.6	2.1	1.9	5.6	12.2	10.7	5.2	.0	.6
.0	.0	.0	.1	1.5	2.1	.6	.2	.0	.0
.0	.0	.0	.0	.0	.1	.0	.0	.0	.0
12.7	8.8	4.5	3.3	8.9	19.1	23.6	17.8	.0	1.2

TABLE 15

MEANS, EXTREMES AND PERCENTILES OF TEMP (DEG F) BY HOUR

HR	MAX	99%	95%	50%	5%	1%	MIN	MEAN	TOTAL
(GMT)									OBS
00003	73	65	61	55	50	47	45	55.2	693
06009	74	66	63	55	50	48	46	55.7	474
12015	70	62	60	54	49	47	43	54.1	515
18021	62	61	59	54	49	48	46	53.6	408
TOT	74	64	61	55	50	48	43	54.7	2040

TABLE 16

PERCENT FREQUENCY OF RELATIVE HUMIDITY BY HOUR

HR	0-29	30-59	60-69	70-79	80-89	90-100	MEAN	TOTAL
(GMT)								OBS
00003	.0	6.0	19.2	32.5	31.6	10.7	77	234
06009	.0	7.9	27.1	30.0	28.1	6.9	74	203
12015	.0	2.5	20.5	28.5	32.5	16.0	78	200
18021	.0	2.1	15.4	29.3	36.2	17.0	80	188
TOT	0	39	170	249	264	103	77	825

SEPTEMBER

PERIOD: (PRIMARY) 1897-1970  
(OVER-ALL) 1854-1970

TABLE 17

AREA 0012 CAPE NELSON  
38.35 141.0E

PCT FREQ OF AIR TEMPERATURE (DEG F) AND THE OCCURRENCE OF FOG (WITHOUT PRECIPITATION)  
VS AIR-SEA TEMPERATURE DIFFERENCE (DEG F)

AIR-SEA TMP DIF	41 44	45 48	49 52	53 56	57 60	61 64	65 68	69 72	73 76	TOT	W FOG	WD FOG
11/13	.0	.0	.0	.0	.0	.0	.1	.1	.2	4	.0	.4
9/10	.0	.0	.0	.0	.0	.0	.1	.0	.0	1	.0	.1
7/8	.0	.0	.0	.0	.3	.7	.7	.0	.0	17	.0	1.6
6	.0	.0	.0	.0	.7	.4	.1	.0	.0	12	.0	1.1
5	.0	.0	.0	.0	1.1	1.1	.0	.0	.0	23	.0	2.2
4	.0	.0	.0	.0	1.7	1.0	.0	.0	.0	28	.0	2.7
3	.0	.0	.0	.4	3.3	.8	.0	.0	.0	44	.0	4.2
2	.0	.0	.0	1.4	4.4	.1	.0	.0	.0	62	.2	5.7
1	.0	.0	.0	4.6	4.5	.0	.0	.0	.0	95	.0	9.1
0	.0	.0	.5	10.1	2.7	.1	.0	.0	.0	140	.3	13.1
-1	.0	.2	.8	13.1	1.3	.0	.0	.0	.0	161	.3	15.1
-2	.0	.0	3.2	9.7	.4	.1	.0	.0	.0	139	.0	13.3
-3	.0	.1	4.9	4.8	.0	.0	.0	.0	.0	102	.0	9.8
-4	.0	.2	6.2	3.0	.1	.0	.0	.0	.0	99	.0	9.5
-5	.0	.3	4.0	.7	.1	.0	.0	.0	.0	53	.0	5.1
-6	.0	.4	3.1	.4	.0	.0	.0	.0	.0	40	.0	3.8
-7/-8	.0	.4	1.2	.2	.0	.0	.0	.0	.0	19	.0	1.8
-9/-10	.1	.0	.2	.0	.0	.0	.0	.0	.0	3	.0	.3
-11/-13	.0	.2	.0	.0	.0	.0	.0	.0	.0	2	.0	.2
-14/-16	.0	.0	.1	.0	.0	.0	.0	.0	.0	1	.0	.1
TOTAL	1	18	252	505	215	41	10	1	2	1045	8	1037
PCT	.1	1.7	24.1	48.3	20.6	3.9	1.0	.1	.2	100.0	.8	99.2

PERIOD: (OVER-ALL) 1963-1970

TABLE 18

PCT FREQ OF WIND SPEED (KTS) AND DIRECTION VERSUS SEA HEIGHTS (FT)

HGT	1-3	4-10	11-21	22-33	34-47	48+	PCT	1-3	4-10	11-21	22-33	34-47	48+	PCT
<1	.0	1.0	.0	.0	.0	.0	1.0	.0	.1	.0	.0	.0	.0	.1
1-2	.0	2.5	1.6	.0	.0	.0	4.1	.3	2.8	.4	.0	.0	.0	3.5
3-4	.0	1.3	1.4	.3	.0	.0	2.9	.0	1.1	1.3	.0	.0	.0	2.4
5-6	.0	.0	1.4	.3	.0	.0	1.7	.0	.5	.4	.0	.0	.0	.9
7	.0	.0	.2	1.0	.0	.0	1.2	.0	.0	.5	.8	.0	.0	1.3
8-9	.0	.0	.3	.3	.0	.0	.5	.0	.0	.0	.0	.0	.0	.0
10-11	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
12	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
13-16	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
17-19	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
20-22	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
23-25	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
26-32	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
33-40	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
41-48	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
49-60	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
61-70	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
71-86	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
87+	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
TOT PCT	.0	4.8	4.9	1.7	.0	.0	11.4	.3	4.5	2.6	.8	.0	.0	8.2

HGT	1-3	4-10	11-21	22-33	34-47	48+	PCT	1-3	4-10	11-21	22-33	34-47	48+	PCT
<1	.0	1.0	.0	.0	.0	.0	1.0	.0	.0	.3	.0	.0	.0	.3
1-2	.2	1.7	.2	.0	.0	.0	2.1	.0	1.2	.1	.0	.0	.0	1.3
3-4	.0	.5	.4	.0	.0	.0	.9	.0	.4	.4	.3	.0	.0	1.1
5-6	.0	.0	.3	.3	.0	.0	.5	.0	.0	.3	.0	.0	.0	.3
7	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
8-9	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
10-11	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
12	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
13-16	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
17-19	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
20-22	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
23-25	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
26-32	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
33-40	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
41-48	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
49-60	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
61-70	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
71-86	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
87+	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
TOT PCT	.2	3.2	.8	.3	.0	.0	4.5	.0	1.5	1.1	.3	.0	.0	2.9



PERIOD: (OVER-ALL) 1963-1970

SEPTEMBER

AREA 0012 CAPE NELSON  
38.35 141.0E

TABLE 18 (CONT)

PCT FREQ OF WIND SPEED (KTS) AND DIRECTION VERSUS SEA HEIGHTS (FT)

HGT	S							PCT	SW							PCT
	1-3	4-10	11-21	22-33	34-47	48+			1-3	4-10	11-21	22-33	34-47	48+		
<1	.0	.4	.0	.0	.0	.0		.0	.3	.0	.0	.0	.0	.0		.3
1-2	.0	1.9	.6	.0	.0	.0		2.5	.0	1.7	.6	.0	.0	.0		2.2
3-4	.0	1.3	1.8	.0	.0	.0		3.1	.0	2.0	4.5	.3	.0	.0		6.8
5-6	.0	.2	.2	.4	.0	.0		.8	.0	.1	2.2	.1	.3	.0		2.7
7	.0	.0	.4	.0	.2	.0		.6	.0	.0	.4	.1	.1	.0		.6
8-9	.0	.0	.2	.3	.0	.0		.4	.0	.0	.6	.5	.0	.0		1.1
10-11	.0	.0	.0	.3	.0	.0		.3	.0	.0	.3	.5	.0	.0		.8
12	.0	.0	.0	.2	.0	.0		.2	.0	.0	.0	.6	.0	.0		.6
13-16	.0	.0	.0	.0	.0	.0		.0	.0	.0	.0	.0	.3	.0		.3
17-19	.0	.0	.0	.0	.0	.0		.0	.0	.0	.0	.0	.0	.0		.0
20-22	.0	.0	.0	.0	.0	.0		.0	.0	.0	.0	.0	.0	.0		.0
23-25	.0	.0	.0	.0	.0	.0		.0	.0	.0	.0	.0	.0	.0		.0
26-32	.0	.0	.0	.0	.0	.0		.0	.0	.0	.0	.0	.0	.0		.0
33-40	.0	.0	.0	.0	.0	.0		.0	.0	.0	.0	.0	.0	.0		.0
41-48	.0	.0	.0	.0	.0	.0		.0	.0	.0	.0	.0	.0	.0		.0
49-60	.0	.0	.0	.0	.0	.0		.0	.0	.0	.0	.0	.0	.0		.0
61-70	.0	.0	.0	.0	.0	.0		.0	.0	.0	.0	.0	.0	.0		.0
71-86	.0	.0	.0	.0	.0	.0		.0	.0	.0	.0	.0	.0	.0		.0
87+	.0	.0	.0	.0	.0	.0		.0	.0	.0	.0	.0	.0	.0		.0
TOT PCT	.0	3.9	3.2	1.2	.2	.0		8.4	.0	4.1	8.6	2.1	.6	.0		15.4

HGT	W							PCT	NW							PCT	TOTAL PCT
	1-3	4-10	11-21	22-33	34-47	48+			1-3	4-10	11-21	22-33	34-47	48+			
<1	.0	.2	.0	.0	.0	.0		.2	.0	.6	.0	.0	.0	.0		.6	
1-2	.3	1.3	2.0	.0	.0	.0		3.6	.0	1.5	1.0	.0	.0	.0		2.4	
3-4	.0	2.4	5.1	.5	.0	.0		7.9	.0	1.5	4.5	.3	.0	.0		6.3	
5-6	.0	.7	7.3	.9	.0	.0		8.9	.0	.5	3.8	.6	.0	.0		4.9	
7	.0	.0	2.1	1.7	.3	.0		4.0	.0	.0	2.2	.3	.0	.0		2.5	
8-9	.0	.0	1.0	1.7	.0	.0		2.7	.0	.0	.3	.6	.0	.0		.8	
10-11	.0	.0	.3	1.2	.0	.0		1.5	.0	.0	.0	.1	.3	.0		.3	
12	.0	.0	.0	.3	.0	.0		.3	.0	.0	.0	.0	.0	.0		.0	
13-16	.0	.0	.0	.5	.7	.0		1.2	.0	.0	.0	.0	.0	.0		.0	
17-19	.0	.0	.0	.0	.0	.0		.0	.0	.0	.0	.3	.0	.0		.3	
20-22	.0	.0	.0	.3	.0	.0		.3	.0	.0	.0	.0	.0	.0		.0	
23-25	.0	.0	.0	.0	.0	.0		.0	.0	.0	.0	.0	.0	.0		.0	
26-32	.0	.0	.0	.0	.0	.0		.0	.0	.0	.0	.0	.0	.0		.0	
33-40	.0	.0	.0	.0	.0	.0		.0	.0	.0	.0	.0	.0	.0		.0	
41-48	.0	.0	.0	.0	.0	.0		.0	.0	.0	.0	.0	.0	.0		.0	
49-60	.0	.0	.0	.0	.0	.0		.0	.0	.0	.0	.0	.0	.0		.0	
61-70	.0	.0	.0	.0	.0	.0		.0	.0	.0	.0	.0	.0	.0		.0	
71-86	.0	.0	.0	.0	.0	.0		.0	.0	.0	.0	.0	.0	.0		.0	
87+	.0	.0	.0	.0	.0	.0		.0	.0	.0	.0	.0	.0	.0		.0	
TOT PCT	.3	4.6	17.7	7.0	1.0	.0		30.6	.0	4.1	11.8	2.0	.3	.0		18.1	99.5

WIND SPEED (KTS) VS SEA HEIGHT (FT)

HGT	0-3	4-10	11-21	22-33	34-47	48+	PCT	TOT OBS
<1	.8	3.8	.3	.0	.0	.0	4.8	
1-2	.8	14.7	6.3	.0	.0	.0	21.8	
3-4	.3	10.4	19.2	1.5	.0	.0	31.4	
5-6	.0	2.0	15.7	2.5	.3	.0	20.5	
7	.0	.0	5.8	3.8	.5	.0	10.1	
8-9	.0	.0	2.3	3.3	.0	.0	5.6	
10-11	.0	.0	.5	2.0	.3	.0	2.8	
12	.0	.0	.0	1.0	.0	.0	1.0	
13-16	.0	.0	.0	.5	1.0	.0	1.5	
17-19	.0	.0	.0	.0	.3	.0	.3	
20-22	.0	.0	.0	.0	.3	.0	.3	
23-25	.0	.0	.0	.0	.0	.0	.0	
26-32	.0	.0	.0	.0	.0	.0	.0	
33-40	.0	.0	.0	.0	.0	.0	.0	
41-48	.0	.0	.0	.0	.0	.0	.0	
49-60	.0	.0	.0	.0	.0	.0	.0	
61-70	.0	.0	.0	.0	.0	.0	.0	
71-86	.0	.0	.0	.0	.0	.0	.0	
87+	.0	.0	.0	.0	.0	.0	.0	
TOT PCT	1.8	30.9	50.1	15.2	2.0	.0	100.0	395

PERIOD: (OVER-ALL) 1949-1970

TABLE 19

PERCENT FREQUENCY OF WAVE HEIGHT (FT) VS WAVE PERIOD (SECONDS)

PERIOD (SEC)	<1	1-2	3-4	5-6	7	8-9	10-11	12	13-16	17-19	20-22	23-25	26-32	33-40	41-48	49-60	61-70	71-86	87+	TOTAL	MEAN HGT
<6	.7	3.1	6.9	4.7	3.0	.5	1.2	.2	.3	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	119	5
6-7	.0	.0	3.8	8.2	4.3	3.1	1.7	1.0	.9	.2	.0	.0	.0	.0	.0	.0	.0	.0	.0	136	7
8-9	.0	.0	2.3	4.3	6.1	3.3	3.6	1.7	1.2	1.6	.5	.0	.0	.0	.0	.0	.0	.0	.0	142	8
10-11	.0	.0	.0	2.8	2.1	2.3	2.6	1.7	.9	.7	.2	.2	.0	.0	.0	.0	.0	.0	.0	77	9
12-13	.0	.0	.2	.2	1.0	.9	.5	1.7	1.2	1.0	.9	.0	.0	.2	.0	.0	.0	.0	.0	45	13
13	.0	.0	.0	.0	.2	.2	.7	.3	1.0	.7	.2	.0	.2	.0	.0	.0	.0	.0	.0	20	14
INDET	.7	1.6	1.4	1.2	.5	.2	.5	.2	.0	.2	.0	.0	.0	.0	.0	.0	.0	.0	.0	37	4
TOTAL	8	27	84	123	99	60	63	40	32	25	10	1	1	3	0	0	0	0	0	576	8
PCT	1.4	4.7	14.6	21.4	17.2	10.4	10.9	6.9	5.6	4.3	1.7	.2	.2	.5	.0	.0	.0	.0	.0	100.0	

OCTOBER

PERIOD: (PRIMARY) 1894-1971  
(OVER-ALL) 1854-1971AREA 0012 CAPE NELSON  
38.35 141.0E

TABLE 1

PERCENT FREQUENCY OF WEATHER OCCURRENCE BY WIND DIRECTION

WIND DIR	PRECIPITATION TYPE							OTHER WEATHER PHENOMENA						
	RAIN	RAIN SHWR	DRZL	FRZG PCPN	SNOW	OTHER FRZN PCPN	HAIL	PCPN AT DB TIME	PCPN PAST HOUR	THOR LTNG	FGG WD PCPN	FGG WD PCPN PAST HR	SMOKE HAZE	SPRAY BLWG DUST SIG WEA
N	5.7	2.1	2.5	.0	.0	.0	.0	9.1	1.7	2.3	7.0	.0	1.5	.0
NE	2.7	2.5	.0	.0	.0	.0	.0	5.2	.0	3.0	2.0	.0	.0	.0
E	3.1	.5	2.6	.0	.0	.0	.0	6.3	1.8	.0	.0	.0	.0	.0
SE	3.4	6.6	2.5	.0	.0	.0	.0	12.5	1.1	.8	1.3	.0	.0	.0
S	2.8	6.7	2.1	.0	.0	.0	.0	11.6	.0	.0	1.5	.0	.0	.0
SW	2.2	12.3	2.2	.0	.0	.0	.0	16.6	1.2	.6	3.0	.4	.4	.0
W	4.6	11.2	2.2	.0	.0	.0	.3	18.4	3.2	.5	1.9	.0	.3	.0
NW	8.8	6.6	2.2	.0	.0	.0	.0	17.2	1.9	2.7	3.6	.6	.8	.0
VAR	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
CALM	.0	.0	.0	.0	.0	.0	.0	.0	11.1	.0	.0	.0	.0	.0
TOT PCT	4.1	7.6	2.1	.0	.0	.0	.1	13.7	1.6	1.0	2.5	.1	.4	.0
TOT OBS:	1339													80.8

TABLE 2

PERCENT FREQUENCY OF WEATHER OCCURRENCE BY HOUR

HOUR (GMT)	PRECIPITATION TYPE							OTHER WEATHER PHENOMENA						
	RAIN	RAIN SHWR	DRZL	FRZG PCPN	SNOW	OTHER FRZN PCPN	HAIL	PCPN AT DB TIME	PCPN PAST HOUR	THOR LTNG	FGG WD PCPN	FGG WD PCPN PAST HR	SMOKE HAZE	SPRAY BLWG DUST SIG WEA
00003	3.5	8.3	2.5	.0	.0	.0	.0	14.1	1.8	.0	3.0	.3	.5	.0
06009	4.2	5.9	1.8	.0	.0	.0	.0	11.9	.9	.3	2.4	.0	.6	.0
12015	3.2	7.9	2.3	.0	.0	.0	.3	13.5	2.0	2.6	2.6	.0	.0	.0
18021	5.4	7.5	1.4	.0	.0	.0	.0	14.3	1.7	1.4	2.4	.3	.3	.0
TOT PCT	4.0	7.4	2.0	.0	.0	.0	.1	13.4	1.6	1.0	2.6	.1	.4	.0
TOT OBS:	1370													81.1

TABLE 3

PERCENTAGE FREQUENCY OF WIND DIRECTION BY SPEED AND BY HOUR

WIND DIR	WIND SPEED (KNOTS)						TOTAL OBS	PCT FREQ	MEAN SPD	HOUR (GMT)							
	0-3	4-10	11-21	22-33	34-47	48+				00	03	06	09	12	15	18	21
N	.3	3.7	3.7	1.2	.1	.0	9.0	13.4	12.1	11.3	7.3	8.5	4.7	7.8	9.7	11.9	
NE	.4	4.0	3.0	.4	.0	.0	7.8	10.9	7.8	6.6	4.8	5.8	5.7	10.0	12.9	9.1	
E	.5	2.8	3.0	.3	.0	.0	6.6	11.2	5.1	5.5	5.6	9.6	9.7	6.8	6.4	9.1	
SE	.4	4.4	3.4	.7	.0	.0	8.9	11.6	8.1	9.9	10.0	6.2	11.8	7.4	7.3	1.8	
S	.7	5.1	4.9	1.4	.2	.0	12.3	12.9	10.6	11.4	13.4	17.7	11.0	13.3	13.2	13.6	
SW	.5	5.3	8.2	3.6	.7	.2	18.5	16.1	20.6	16.8	18.7	18.1	17.7	21.1	17.1	19.1	
W	.5	5.5	10.3	4.4	1.3	.2	22.3	17.1	21.1	20.2	27.1	18.1	25.0	20.6	20.2	19.1	
NW	.4	3.7	5.4	2.6	.7	.1	12.8	16.6	12.8	16.2	11.4	14.6	12.7	11.8	11.3	14.5	
VAR	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
CALM	1.8						1.8	.0	1.7	2.1	1.8	1.5	1.7	1.2	2.0	1.8	
TOT OBS	127	816	989	343	74	12	2361	14.3	418	389	442	65	344	244	404	55	
TOT PCT	5.4	34.6	41.9	14.5	3.1	.5	100.0		100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	

TABLE 3A

WIND DIR	WIND SPEED (KNOTS)					TOTAL OBS	PCT FREQ	MEAN SPD	HOUR (GMT)			
	0-6	7-16	17-27	28-40	41+				00	06	12	18
N	1.5	4.6	2.5	.4	.0	9.0	13.4	11.7	7.4	6.0	9.9	
NE	1.7	4.8	1.1	.1	.0	7.8	10.9	7.2	4.9	7.5	12.4	
E	1.3	4.2	.9	.2	.0	6.6	11.2	5.3	6.1	8.5	6.8	
SE	2.1	5.1	1.3	.4	.0	8.9	11.6	9.0	9.5	9.9	6.6	
S	2.8	5.8	3.2	.4	.1	12.3	12.9	11.0	14.0	11.9	13.2	
SW	2.6	7.9	5.8	1.9	.3	18.5	16.1	18.8	18.6	19.1	17.3	
W	2.3	9.1	7.7	2.7	.5	22.3	17.1	20.7	25.9	23.2	20.1	
NW	1.6	5.4	3.8	1.6	.4	12.8	16.6	14.4	11.8	12.3	11.7	
VAR	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
CALM	1.8					1.8	.0	1.9	1.8	1.5	2.0	
TOT OBS	417	1106	620	187	31	2361	14.3	807	507	588	459	
TOT PCT	17.7	46.8	26.3	7.9	1.3	100.0		100.0	100.0	100.0	100.0	

## OCTOBER

PERIOD: (PRIMARY) 1894-1971  
(OVER-ALL) 1854-1971

AREA 0012 CAPE NELSON  
38.35 141.06

TABLE 4

## PERCENTAGE FREQUENCY OF WIND SPEED BY HOUR (GMT)

HOUR	CALM	1-3	4-10	WIND SPEED (KNOTS)			48+	MEAN	PCT FREQ	TOTAL OBS
				11-21	22-33	34-47				
00603	1.9	2.6	32.2	43.0	16.5	3.5	.4	14.9	100.0	807
05609	1.8	3.0	34.7	43.8	13.0	2.6	.6	14.1	100.0	507
12615	1.5	4.0	36.2	39.8	13.8	3.4	.7	14.1	100.0	588
18621	2.0	4.1	36.4	40.5	13.7	2.8	.4	13.9	100.0	459
TOT	42	85	816	989	343	74	12	14.3		2301
PCT	1.8	3.0	34.6	41.9	14.5	3.1	.5		100.0	

TABLE 5

PCT FREQ OF TOTAL CLOUD AMOUNT (EIGHTHS)  
BY WIND DIRECTION

WIND DIR	0-2	3-4	5-7	8 & OBSCD	TOTAL OBS	MEAN CLOUD COVER
N	2.3	1.3	3.1	2.8		5.0
NE	2.3	.8	2.7	2.2		4.8
E	2.9	1.1	2.5	1.7		4.2
SE	2.2	1.6	3.0	2.7		5.0
S	1.8	1.5	5.1	3.0		5.4
SW	2.1	3.2	7.5	3.7		5.4
W	3.9	5.9	11.1	4.4		5.1
NW	2.0	.8	3.5	4.5		5.8
VAR	.0	.0	.0	.0		.0
CALM	.3	.3	.3	.0		3.6
TOT OBS	122	102	240	154	618	5.1
TOT PCT	19.7	16.5	38.8	24.9	100.0	

TABLE 6

PERCENTAGE FREQUENCY OF CEILING HEIGHTS (FT, NH >4/8)  
AND OCCURRENCE OF NH <5/8 BY WIND DIRECTION

	000	150	300	600	1000	2000	3500	5000	6500	8000+	NH <5/8 ANY HGT	TOTAL OBS
	149	299	599	999	1999	3499	4999	6499	7999			
N	.0	.0	.0	.4	1.5	1.1	.3	.3	.1	.4	4.1	
NE	.1	.0	.0	.5	.7	1.5	.6	.0	*	.2	4.3	
E	.1	.0	.2	.0	.7	.4	.7	.0	.2	.2	5.6	
SE	.0	.0	.2	.7	1.7	1.5	.3	.2	.0	.0	4.9	
S	.0	.0	.2	1.1	2.8	1.9	.8	.5	.3	.0	5.0	
SW	.2	.0	.0	1.1	4.8	1.8	1.2	.2	*	.2	7.0	
W	.1	.0	.0	2.5	4.4	2.0	2.1	.6	.2	.0	13.4	
NW	.0	.0	.2	1.0	2.6	.9	1.1	.2	.2	.0	6.7	
VAR	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
CALM	.0	.0	.0	.0	.2	.2	.0	.0	.0	.0	.6	
TOT OBS	3	0	5	45	120	64	44	12	6	6	313	
TOT PCT	.5	.0	.8	7.3	19.4	10.4	7.1	1.9	1.0	1.0	50.6	618

TABLE 7

CUMULATIVE PCT FREQ OF SIMULTANEOUS OCCURRENCE  
OF CEILING HEIGHT (NH >4/8) AND VSBY (NM)

CEILING (FEET)	VSBY (NM)							
	>10	>5	>2	>1	>1/2	>1/4	>50YD	>0
>4500	1.6	1.9	1.9	1.9	1.9	1.9	1.9	1.9
>4000	2.9	3.4	3.8	3.8	3.8	3.8	3.8	3.8
>3500	8.5	9.9	10.9	10.9	10.9	10.9	10.9	10.9
>3000	16.8	20.2	21.2	21.2	21.2	21.2	21.2	21.2
>2500	32.4	39.3	40.5	40.5	40.7	40.7	40.7	40.7
>2000	37.0	46.8	48.1	48.1	48.2	48.2	48.2	48.2
>1500	37.3	47.4	48.9	48.9	49.0	49.0	49.0	49.0
>1000	37.3	47.4	48.9	48.9	49.0	49.0	49.0	49.0
>500	37.5	47.6	49.4	49.4	49.5	49.5	49.5	49.5
>0	37.5	47.6	49.4	49.4	49.5	49.5	49.5	49.5
TOTAL	234	297	308	308	309	309	309	309

TOTAL NUMBER OF OBS: 524

PCT FREQ NH &lt;5/8: 50.5

TABLE 7A

## PERCENTAGE FREQ OF LOW CLOUDS (EIGHTHS)

	0	1	2	3	4	5	6	7	8	OBSCD	TOTAL OBS
	10.0	9.3	11.1	10.5	9.6	8.2	11.1	11.0	19.1	.1	711

## OCTOBER

PERIOD: (PRIMARY) 1894-1971  
(OVER-ALL) 1854-1971

TABLE 8

AREA 0012 CAPE NELSON  
36.35 141.06PERCENT FREQ OF WIND DIRECTION VS OCCURRENCE OR NON-OCCURRENCE OF  
PRECIPITATION WITH VARYING VALUES OF VISIBILITY

VSBY (NM)		N	NE	E	SE	S	SW	W	NW	VAR	CALM	PCT	TOTAL OBS
<1/2	PCP	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
	NO PCP	.1	.0	.0	.1	.0	.0	.0	.0	.0	.0	.0	.1
	TOT %	.1	.0	.0	.1	.0	.0	.0	.0	.0	.0	.0	.1
1/2<1	PCP	.1	.0	.0	.0	.0	.2	.0	.0	.0	.0	.0	.4
	NO PCP	.5	.1	.1	.1	.2	.6	.4	.3	.0	.0	.0	2.2
	TOT %	.6	.1	.1	.1	.2	.8	.4	.3	.0	.0	.0	2.7
1<2	PCP	.0	.0	.0	.0	.0	.0	.1	.1	.0	.0	.0	.2
	NO PCP	.1	.0	.0	.0	.0	.1	.0	.0	.0	.0	.0	.1
	TOT %	.1	.0	.0	.0	.0	.1	.1	.1	.0	.0	.0	.4
2<5	PCP	.1	.0	.1	.0	.1	.1	.1	.3	.0	.0	.0	.8
	NO PCP	.0	.0	.0	.0	.0	.1	.1	.2	.0	.0	.0	.4
	TOT %	.1	.0	.1	.0	.1	.2	.2	.5	.0	.0	.0	1.2
5<10	PCP	.4	.3	.1	.9	.7	2.6	3.0	1.3	.0	.0	.0	9.5
	NO PCP	2.8	2.7	3.3	2.6	5.0	7.1	7.1	4.9	.0	.1	.1	35.4
	TOT %	3.2	3.0	3.4	3.5	5.8	9.7	10.1	6.2	.0	.1	.1	44.9
10+	PCP	.2	.1	.1	.2	.5	.3	1.0	.3	.0	.0	.0	2.7
	NO PCP	4.6	4.4	3.4	5.0	5.6	8.7	11.3	4.5	.0	.6	.6	48.0
	TOT %	4.8	4.5	3.6	5.2	6.1	9.0	12.3	4.7	.0	.6	.6	50.7
TOT OBS													1338
TOT PCT		8.8	7.6	7.1	8.8	12.2	19.8	23.1	11.9	.0	.7	.7	100.0

TABLE 9

PERCENT FREQ OF WIND DIRECTION VS WIND SPEED  
WITH VARYING VALUES OF VISIBILITY

VSBY (NM)	SPD KTS	N	NE	E	SE	S	SW	W	NW	VAR	CALM	PCT	TOTAL OBS
<1/2	0-3	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
	4-10	.0	.0	.0	.1	.0	.0	.0	.0	.0	.0	.0	.1
	11-21	.1	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.1
	22+	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
	TOT %	.1	.0	.0	.1	.0	.0	.0	.0	.0	.0	.0	.1
1/2<1	0-3	.0	.1	.0	.0	.0	.1	.0	.1	.0	.0	.0	.3
	4-10	.1	.1	.0	.0	.2	.2	.1	.0	.0	.0	.0	.8
	11-21	.5	.0	.0	.0	.0	.2	.2	.0	.0	.0	.0	1.1
	22+	.0	.0	.0	.0	.0	.2	.0	.0	.0	.0	.0	.2
	TOT %	.6	.1	.0	.0	.2	.7	.4	.3	.0	.0	.0	2.4
1<2	0-3	.0	.0	.0	.0	.0	.1	.0	.0	.0	.0	.0	.1
	4-10	.0	.0	.0	.0	.0	.0	.0	.1	.0	.0	.0	.1
	11-21	.0	.0	.0	.0	.0	.0	.1	.0	.0	.0	.0	.1
	22+	.1	.0	.0	.0	.0	.0	.0	.1	.0	.0	.0	.1
	TOT %	.1	.0	.0	.0	.0	.1	.1	.1	.0	.0	.0	.3
2<5	0-3	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.1
	4-10	.0	.0	.1	.0	.0	.1	.0	.2	.0	.0	.0	.5
	11-21	.1	.0	.0	.0	.1	.1	.1	.1	.0	.0	.0	.5
	22+	.1	.0	.0	.0	.0	.1	.1	.2	.0	.0	.0	.5
	TOT %	.1	.0	.1	.0	.2	.3	.3	.5	.0	.0	.0	1.5
5<10	0-3	.1	.0	.0	.1	.0	.0	.1	.0	.0	.1	.0	.5
	4-10	1.4	1.2	1.2	1.2	2.4	2.5	2.1	1.8	.0	.0	.0	13.8
	11-21	1.1	1.2	1.6	1.5	2.0	3.5	4.2	2.5	.0	.0	.0	17.6
	22+	.4	.3	.2	.4	.9	2.6	2.7	1.2	.0	.0	.0	8.5
	TOT %	3.0	2.7	3.0	3.1	5.2	8.7	9.2	5.5	.0	.1	.1	40.4
10+	0-3	.0	.1	.2	.1	.4	.3	.2	.1	.0	.7	.0	2.1
	4-10	2.2	2.7	1.5	2.6	3.4	3.6	4.1	1.7	.0	.0	.0	21.8
	11-21	2.0	1.9	1.8	2.4	3.1	5.1	6.3	2.2	.0	.0	.0	24.8
	22+	.6	.2	.0	.3	.6	1.7	2.3	.8	.0	.0	.0	6.6
	TOT %	4.8	4.9	3.6	5.5	7.5	10.6	13.0	4.9	.0	.7	.7	55.3
TOT OBS													1525
TOT PCT		8.6	7.6	6.7	8.8	13.0	20.4	22.8	11.3	.0	.8	.8	100.0

PERIOD: (PRIMARY) 1874-1971  
(OVER-ALL) 1854-1971

# OCTOBER

AREA 0012 CAPE NELSON  
38.35 141.0E

TABLE 10

PERCENT FREQUENCY OF CEILING HEIGHTS (FEET, NH >4/8) AND  
OCCURRENCE OF NH <5/8 BY HOUR

HRUR (GMT)	000 149	150 299	300 599	600 999	1000 1999	2000 3499	3500 4999	5000 6499	6500 7999	8000+	TOTAL	NH <5/8 ANY HGT	TOTAL OBS
00003	.0	.0	1.0	8.2	17.0	8.2	8.8	3.1	.0	2.1	48.5	51.5	194
06009	.0	.0	1.1	8.1	17.3	10.3	8.1	1.1	2.2	1.1	49.2	50.8	185
12015	.0	.0	.7	5.6	19.0	11.3	3.5	2.1	.0	.0	42.3	57.7	142
18021	2.0	.0	.0	5.4	20.4	8.8	4.8	.7	1.4	.0	43.5	56.5	147
TOT	3	0	5	47	122	64	44	12	6	6	309	359	668
PCT	.4	.0	.7	7.0	18.3	9.6	6.6	1.8	.9	.9	46.3	53.7	100.0

TABLE 11

PERCENT FREQUENCY VSBY (NM) BY HOUR

HRUR (GMT)	<1/2	1/2<1	1<2	2<5	5<10	10+	TOTAL OBS
00003	.2	2.6	.0	1.3	42.3	53.6	463
06009	.0	2.6	.8	1.8	35.8	58.9	380
12015	.3	2.3	.0	.8	44.8	51.8	386
18021	.0	2.1	.6	2.1	41.0	54.1	327
TOT	2	38	5	23	639	849	1556
PCT	.1	2.4	.3	1.5	41.1	54.6	100.0

TABLE 12

CUMULATIVE PCT FREQ OF RANGES OF VSBY (NM) AND/OR  
CEILING HGT (FEET, NH >4/8) BY HOUR

HRUR (GMT)	<150 <500	<600 <1	<1000 <5	1000+ AND 5+	NH <5/8 AND 5+	TOTAL OBS
00003	.0	1.1	10.6	41.9	47.5	179
06009	.0	1.7	11.9	39.5	48.6	177
12015	.0	.7	8.1	36.3	55.6	135
18021	2.3	2.3	9.8	38.3	51.9	133
TOT	3	9	64	245	315	624
PCT	.5	1.4	10.3	39.3	50.5	100.0

TABLE 13

PERCENT FREQUENCY OF RELATIVE HUMIDITY BY TEMP

TEMP F	0-29	30-39	40-49	50-59	60-69	70-79	80-89	90-100	TOTAL OBS	PCT FREQ
70/74	.0	.0	.1	.0	.0	.0	.0	.0	1	.1
65/69	.0	.0	.1	1.0	.1	.6	.0	.1	16	1.9
60/64	.0	.0	.0	.2	2.8	4.8	2.4	1.4	97	11.6
55/59	.0	.0	.0	1.4	5.5	12.3	18.8	7.8	383	45.9
50/54	.0	.0	.0	1.0	11.1	9.1	12.2	4.8	319	38.2
45/49	.0	.0	.0	.0	.2	1.1	.8	.1	19	2.3
TOTAL	0	0	2	30	165	233	286	119	835	100.0
PCT	.0	.0	.2	3.6	19.8	27.9	34.3	14.3		

TABLE 14

PERCENT FREQUENCY OF WIND DIRECTION BY TEMP

N	NE	E	SE	S	SW	W	NW	VAR	CALM
.0	*	.1	.0	.0	.0	.0	.0	.0	.0
.7	.6	.0	.0	.0	.1	.1	.3	.0	.1
2.9	1.6	1.0	.4	.6	.8	2.7	1.6	.0	.0
4.0	4.3	4.3	4.4	3.9	6.5	11.0	7.0	.0	.5
1.0	1.8	1.9	4.3	7.2	9.4	10.4	2.0	.0	.2
.0	.0	.0	.0	.5	.7	.5	.5	.0	.0
8.5	8.3	7.3	9.1	12.2	17.5	24.7	11.4	.0	.8

TABLE 15

MEANS, EXTREMES AND PERCENTILES OF TEMP (DEG F) BY HOUR

HRUR (GMT)	MAX	99%	95%	50%	5%	1%	MIN	MEAN	TOTAL OBS
00003	69	67	63	56	51	49	47	56.2	776
06009	74	68	64	56	51	50	47	56.9	496
12015	72	65	61	55	50	48	46	54.9	583
18021	67	64	60	54	49	47	46	54.3	455
TOT	74	66	62	55	50	48	46	55.7	2310

TABLE 16

PERCENT FREQUENCY OF RELATIVE HUMIDITY BY HOUR

HRUR (GMT)	0-29	30-39	40-49	50-59	60-69	70-79	80-89	90-100	MEAN	TOTAL OBS
00003	.0	2.8	23.8	31.3	29.4	12.7	77	252		
06009	.0	6.4	24.5	30.5	28.6	10.0	76	220		
12015	.0	2.6	17.5	22.3	39.4	18.1	81	193		
18021	.0	3.3	10.5	25.6	42.2	18.3	81	180		
TOT	0	32	167	235	289	122	78	845		



## OCTUBER

PERIOD: (PRIMARY) 1894-1971  
(OVER-ALL) 1854-1971

TABLE 17

AREA 0012 CAPE NELSON  
38.3S 141.0E

PCT FREQ OF AIR TEMPERATURE (DEG F) AND THE OCCURRENCE OF FOG (WITHOUT PRECIPITATION)  
VS AIR-SEA TEMPERATURE DIFFERENCE (DEG F)

AIR-SEA TMP DIF	45	49	53	57	61	65	69	TOT	N FOG	NO FOG
	48	52	56	60	64	68	72			
11/13	.0	.0	.0	.0	.0	.3	.2	6	.0	.5
9/10	.0	.0	.0	.0	.1	.2	.1	4	.0	.3
7/8	.0	.0	.0	.1	.7	.8	.1	19	.1	1.5
6	.0	.0	.0	.1	1.4	.2	.0	20	.1	1.6
5	.0	.0	.1	.4	.7	.2	.0	16	.1	1.3
4	.0	.0	.3	1.2	1.5	.0	.0	36	.0	3.1
3	.0	.0	.3	3.5	.9	.0	.0	56	.3	4.4
2	.0	.2	1.5	5.8	.3	.1	.0	92	.1	7.7
1	.0	.3	3.0	5.1	.2	.0	.0	100	.3	8.2
0	.0	.4	8.2	5.5	.3	.0	.0	170	.8	13.6
-1	.0	1.3	9.9	2.6	.1	.0	.0	164	.4	13.5
-2	.1	2.5	12.5	1.0	.0	.1	.0	191	.3	15.9
-3	.0	3.2	7.5	.5	.1	.0	.0	133	.2	11.1
-4	.0	3.9	2.0	.1	.0	.0	.0	71	.1	5.9
-5	.3	2.5	1.2	.0	.0	.0	.0	47	.1	3.9
-6	.2	1.6	.5	.0	.1	.0	.0	28	.0	2.4
-7/-8	.3	.9	.3	.2	.0	.0	.0	19	.1	1.5
-9/-10	.2	.2	.0	.0	.0	.0	.0	4	.0	.3
-11/-13	.1	.1	.0	.0	.0	.0	.0	2	.0	.2
TOTAL	12		558		74		4	1178	35	1143
PCT	1.0	17.1	47.4	26.1	6.3	1.8	.3	100.0	3.0	97.0

PERIOD: (OVER-ALL) 1963-1971

TABLE 18

PCT FREQ OF WIND SPEED (KTS) AND DIRECTION VERSUS SEA HEIGHTS (FT)

HGT	1-3	4-10	11-21	22-33	34-47	48+	PCT	1-3	4-10	11-21	22-33	34-47	48+	PCT
<1	.0	.5	.3	.0	.0	.0	.8	.0	.5	.0	.0	.0	.0	.5
1-2	.0	2.1	.7	.0	.0	.0	2.7	.0	1.6	.9	.0	.0	.0	2.5
3-4	.0	1.5	2.3	.2	.0	.0	4.0	.0	1.0	3.1	.0	.0	.0	4.0
5-6	.0	.5	.5	.8	.0	.0	1.7	.0	.0	.2	.3	.0	.0	.5
7	.0	.2	.5	.2	.0	.0	.9	.0	.0	.3	.0	.3	.0	.5
8-9	.0	.0	.0	.3	.0	.0	.3	.0	.0	.0	.0	.0	.0	.0
10-11	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
12	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
13-16	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
17-19	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
20-22	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
23-25	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
26-32	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
33-40	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
41-48	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
49-60	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
61-70	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
71-86	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
87+	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
TOT PCT	.0	4.7	4.2	1.4	.0	.0	10.4	.0	3.1	4.5	.3	.3	.0	8.2

HGT	1-3	4-10	11-21	22-33	34-47	48+	PCT	1-3	4-10	11-21	22-33	34-47	48+	PCT
<1	.0	.2	.0	.0	.0	.0	.2	.3	.1	.0	.0	.0	.0	.4
1-2	.0	1.2	1.1	.0	.0	.0	2.3	.0	2.0	.0	.0	.0	.0	2.0
3-4	.0	.5	2.0	.0	.0	.0	2.5	.0	.8	1.2	.0	.0	.0	2.1
5-6	.0	.3	1.0	.0	.0	.0	1.2	.0	.0	3.9	.3	.0	.0	4.2
7	.0	.0	.0	.0	.0	.0	.0	.0	.0	.5	.5	.0	.0	1.1
8-9	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
10-11	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
12	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
13-16	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
17-19	.0	.0	.0	.2	.0	.0	.2	.0	.0	.0	.1	.0	.0	.1
20-22	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
23-25	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
26-32	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
33-40	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
41-48	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
49-60	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
61-70	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
71-86	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
87+	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
TOT PCT	.0	2.2	4.0	.2	.0	.0	6.4	.3	2.9	5.7	.9	.0	.0	9.8

PERIOD: (OVER-ALL) 1963-1971

OCTOBER

AREA 0012 CAPE NELSON  
38.35 141.0E

TABLE 18 (CONT)

PCT FREQ OF WIND SPEED (KTS) AND DIRECTION VERSUS SEA HEIGHTS (FT)

HGT	S							SW							PCT	TOTAL PCT
	1-3	4-10	11-21	22-33	34-47	48+	PCT	1-3	4-10	11-21	22-33	34-47	48+	PCT		
<1	.0	.9	.0	.0	.0	.0	.9	.0	.8	.0	.0	.0	.0	.8		
1-2	.0	2.4	.0	.0	.0	.0	2.4	.0	2.5	1.1	.0	.0	.0	4.1		
3-4	.0	1.0	1.8	.0	.0	.0	2.7	.0	3.1	2.1	.3	.0	.0	5.5		
5-6	.0	.2	2.5	.0	.0	.0	2.7	.0	.1	4.0	1.4	.0	.0	5.5		
7	.0	.0	.0	.3	.0	.0	.3	.0	.0	.9	.3	.0	.0	1.2		
8-9	.0	.0	.0	.0	.0	.0	.0	.0	.0	.8	.0	.1	.0	.9		
10-11	.0	.0	.0	.0	.0	.0	.0	.0	.0	.1	.0	.0	.0	.1		
12	.0	.0	.0	.0	.0	.0	.0	.0	.0	.1	.0	.0	.0	.1		
13-16	.0	.0	.3	.0	.0	.0	.3	.0	.0	.0	.3	.0	.0	.3		
17-19	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0		
20-22	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0		
23-25	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0		
26-32	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0		
33-40	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0		
41-48	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0		
49-60	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0		
61-70	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0		
71-86	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0		
87+	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0		
TOT PCT	.0	4.5	4.5	.3	.0	.0	9.2	.5	6.4	9.1	2.3	.1	.0	18.4		

HGT	W							NW							PCT	TOTAL PCT
	1-3	4-10	11-21	22-33	34-47	48+	PCT	1-3	4-10	11-21	22-33	34-47	48+	PCT		
<1	.0	.5	.0	.0	.0	.0	.5	.0	.1	.0	.0	.0	.0	.1		
1-2	.0	3.3	.5	.0	.0	.0	3.8	.0	2.3	.1	.0	.0	.0	2.3		
3-4	.0	4.3	4.8	.2	.0	.0	9.3	.0	1.8	1.0	.1	.0	.0	2.9		
5-6	.0	.5	4.4	.3	.3	.0	5.4	.0	.4	1.1	.5	.0	.0	2.1		
7	.0	.0	2.1	.8	.0	.0	2.9	.0	.1	.1	.6	.3	.0	1.0		
8-9	.0	.0	.5	1.0	.5	.0	2.1	.0	.0	.3	.3	.0	.0	.6		
10-11	.0	.0	.5	.3	.0	.0	.8	.0	.0	.3	.8	.0	.0	1.1		
12	.0	.0	.2	.0	.0	.0	.2	.0	.0	.0	.0	.0	.0	.0		
13-16	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0		
17-19	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0		
20-22	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0		
23-25	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0		
26-32	.0	.0	.0	.3	.3	.0	.5	.0	.0	.0	.0	.3	.0	.3		
33-40	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0		
41-48	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0		
49-60	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0		
61-70	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0		
71-86	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0		
87+	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0		
TOT PCT	.0	8.6	13.1	2.9	1.0	.0	25.5	.0	4.7	2.8	2.4	.5	.0	10.4	98.4	

WIND SPEED (KTS) VS SEA HEIGHT (FT)

HGT	0-3	4-10	11-21	22-33	34-47	48+	PCT	TOT DBS
<1	1.6	3.8	.3	.0	.0	.0	5.7	
1-2	.8	17.4	4.4	.0	.0	.0	22.6	
3-4	.0	13.9	18.3	.8	.0	.0	33.0	
5-6	.0	1.9	17.4	3.5	.3	.0	23.2	
7	.0	.3	4.4	2.7	.5	.0	7.9	
8-9	.0	.0	1.6	1.6	.5	.0	3.8	
10-11	.0	.0	.8	1.1	.0	.0	1.9	
12	.0	.0	.3	.0	.0	.0	.3	
13-16	.0	.0	.3	.3	.0	.0	.5	
17-19	.0	.0	.0	.3	.0	.0	.3	
20-22	.0	.0	.0	.0	.0	.0	.0	
23-25	.0	.0	.0	.0	.0	.0	.0	
26-32	.0	.0	.0	.3	.5	.0	.8	
33-40	.0	.0	.0	.0	.0	.0	.0	
41-48	.0	.0	.0	.0	.0	.0	.0	
49-60	.0	.0	.0	.0	.0	.0	.0	
61-70	.0	.0	.0	.0	.0	.0	.0	
71-86	.0	.0	.0	.0	.0	.0	.0	
87+	.0	.0	.0	.0	.0	.0	.0	
TOT PCT	2.5	37.3	47.7	10.6	1.9	.0	100.0	367

PERIOD: (OVER-ALL) 1949-1971

TABLE 19

PERCENT FREQUENCY OF WAVE HEIGHT (FT) VS WAVE PERIOD (SECONDS)

PERIOD (SEC)	<1	1-2	3-4	5-6	7	8-9	10-11	12	13-16	17-19	20-22	23-25	26-32	33-40	41-48	49-60	61-70	71-86	87+	TOTAL	MEAN HGT
<6	.6	4.6	9.6	4.6	2.9	.6	.8	.2	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	124	4
6-7	.0	.8	5.2	8.2	5.7	3.3	1.9	.8	.8	.2	.0	.2	.0	.0	.0	.0	.0	.0	.0	141	6
8-9	.0	.0	.4	4.6	5.0	3.4	3.4	1.3	1.7	.2	.2	.0	.2	.0	.0	.0	.0	.0	.0	107	8
10-11	.0	.0	.4	1.3	1.7	1.5	1.3	1.9	1.5	.2	.8	.2	.0	.0	.0	.0	.0	.0	.0	57	10
12-13	.0	.0	.2	1.0	.8	1.3	1.3	.2	.6	.2	.4	.2	.4	.0	.0	.0	.0	.0	.0	33	11
>13	.0	.0	.0	1.0	1.0	.6	.4	.2	.6	.2	.0	.2	.0	.0	.0	.0	.0	.0	.0	21	9
INDET	1.5	1.1	1.5	1.3	1.1	.0	.0	.4	.2	.2	.0	.0	.0	.0	.0	.0	.0	.0	.0	39	4
TOTAL	11	34	90	115	95	56	48	26	28	6	7	3	3	0	0	0	0	0	0	522	7
PCT	2.1	6.5	17.2	22.0	18.2	10.7	9.2	5.0	5.4	1.1	1.3	.6	.6	.0	.0	.0	.0	.0	.0	100.0	

PERIOD: (PRIMARY) 1891-1969  
(OVER-ALL) 1854-1969

NOVEMBER

AREA 0012 CAPE NELSON  
38.45 141.1E

TABLE 1

PERCENT FREQUENCY OF WEATHER OCCURRENCE BY WIND DIRECTION

PRECIPITATION TYPE										OTHER WEATHER PHENOMENA						
WIND DIR	RAIN	RAIN SHWR	DRZL	FRZG PCPN	SNOW	OTHER FRZN PCPN	HAIL	PCPN AT DB TIME	PCPN PAST HOUR	THDR LTNG	FGG WD PCPN	FGG WD PCPN PAST HR	SMOKE HAZE	SPRAY BLWG DUST	NO SIG WEA	
N	5.2	3.4	2.6	.0	.0	.0	.0	11.2	.0	2.0	5.7	.0	.0	.0	81.6	
NE	5.8	3.5	3.8	.0	.0	.0	.0	13.2	2.6	.3	2.9	.0	.6	.0	80.4	
E	3.6	2.4	.8	.0	.0	.0	.0	6.8	1.8	.0	2.2	.0	.8	.0	88.3	
SE	1.4	.7	1.4	.0	.0	.0	.0	3.6	1.8	.7	4.5	.0	.4	.0	89.0	
S	3.1	4.6	2.5	.0	.0	.0	.4	10.6	1.7	.6	.0	.0	.0	.0	86.6	
SW	1.9	9.4	2.1	.0	.0	.0	.2	13.7	1.5	1.7	3.4	.0	.8	.0	79.3	
W	3.6	4.4	2.0	.0	.0	.0	.2	10.2	3.6	.9	3.2	.0	1.6	.0	80.5	
NW	3.5	5.1	5.1	.0	.0	.0	.0	13.8	3.9	.8	7.1	.0	.8	.0	74.0	
VAR	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
CALM	11.1	.0	.0	.0	.0	.0	.0	11.1	.0	.0	.0	.0	.0	.0	88.9	
TOT PCT	3.3	4.7	2.4	.0	.0	.0	.2	10.5	2.3	.9	3.4	.0	.8	.0	82.2	
TOT OBS:	1313															

TABLE 2

PERCENT FREQUENCY OF WEATHER OCCURRENCE BY HOUR

PRECIPITATION TYPE										OTHER WEATHER PHENOMENA					
HOUR (GMT)	RAIN	RAIN SHWR	DRZL	FRZG PCPN	SNOW	OTHER FRZN PCPN	HAIL	PCPN AT DB TIME	PCPN PAST HOUR	THDR LTNG	FGG WD PCPN	FGG WD PCPN PAST HR	SMOKE HAZE	SPRAY BLWG DUST	NO SIG WEA
00003	2.0	4.4	2.0	.0	.0	.0	.0	8.4	2.0	.0	4.4	.0	.7	.0	84.4
06009	3.9	3.2	2.6	.0	.0	.0	.0	9.7	2.9	.0	3.9	.0	1.3	.0	82.1
12015	3.8	6.8	2.7	.0	.0	.0	.3	13.6	2.2	1.9	2.7	.0	.5	.0	79.1
18021	4.5	4.2	2.1	.0	.0	.0	.3	11.2	2.1	1.7	2.8	.0	.3	.0	82.5
TOT PCT TOT OBS:	3.4 1368	4.8	2.3	.0	.0	.0	.1	10.7	2.3	.9	3.5	.0	.7	.0	82.1

TABLE 3

PERCENTAGE FREQUENCY OF WIND DIRECTION BY SPEED AND BY HOUR

WIND DIR	WIND SPEED (KNOTS)								TOTAL OBS	PCT FREQ	MEAN SPD	HOUR (GMT)							
	0-3	4-10	11-21	22-33	34-47	48+	*					00	03	06	09	12	15	18	21
N	.7	2.4	2.9	.6	*	.0		6.6	12.0			9.8	7.4	5.5	4.5	4.1	5.4	6.5	12.2
NE	.4	2.9	2.1	.3	.0	.0		5.7	10.8			9.1	5.8	2.1	9.1	4.2	5.2	6.9	8.9
E	.5	4.0	3.8	.6	.1	.0		9.0	11.6			7.5	9.0	8.3	16.4	9.8	10.1	8.9	8.9
SE	.7	4.9	4.0	.9	.2	.0		10.7	11.7			9.4	10.3	10.4	11.4	12.4	10.9	10.9	10.0
S	.8	5.2	4.9	1.4	.2	.0		12.5	12.7			13.2	10.3	13.3	15.0	14.8	12.4	11.0	3.3
SW	.4	6.6	7.8	3.7	1.2	.2		19.8	16.3			19.3	19.8	21.2	16.4	18.7	20.0	19.6	27.8
W	.5	5.7	10.1	6.1	1.7	.3		24.4	18.4			21.9	24.6	29.6	17.3	24.6	23.2	23.4	20.0
NW	.3	3.2	4.5	1.7	.2	.1		9.9	15.2			9.3	10.9	8.2	8.2	10.6	12.0	10.1	6.7
VAR	.0	.0	.0	.0	.0	.0		.0	.0			.0	.0	.0	.0	.0	.0	.0	.0
CALM	1.3							1.3	.0			.5	1.9	1.4	1.8	.8	.9	1.8	2.2
TOT OBS	130	813	935	354	85	13	2330	14.5				397	423	414	55	376	233	387	45
TOT PCT	5.6	34.9	40.1	15.2	3.6	.6		100.0				100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0

TABLE 3A

WIND DIR	0-6	WIND SPEED (KNOTS)				41+	TOTAL OBS	PCT FREQ	MEAN SPD	HOUR (GMT)			
		7-16	17-27	28-40	00 03					06 09	12 15	18 21	
N	1.4	3.4	1.7	.1	*		6.6	12.0	8.6	5.4	4.6	7.1	
NE	1.2	3.4	1.0	.1	.0		5.7	10.8	7.4	2.9	4.6	7.1	
E	2.2	4.9	1.7	.2	.0		9.0	11.6	8.3	9.2	9.9	8.9	
SE	2.6	5.6	2.2	.3	.0		10.7	11.7	9.9	10.5	11.8	10.8	
S	2.8	6.3	2.7	.6	.1		12.5	12.7	11.7	13.5	13.9	11.0	
SW	2.7	7.7	5.5	2.6	.4		19.8	16.3	19.5	20.6	19.2	20.5	
W	2.1	9.3	8.4	3.8	.8		24.4	18.4	23.3	28.2	24.1	23.1	
NW	1.1	4.9	3.0	.8	.1		9.9	15.2	10.1	8.2	11.1	9.7	
VAR	.0	.0	.0	.0	.0		.0	.0	.0	.0	.0	.0	
CALM	1.3						1.3	.0	1.2	1.5	.8	1.9	
TOT OBS	407	1085	605	198	35	2330		14.5		820	469	609	432
TOT PCT	17.5	46.6	26.0	8.5	1.5		100.0		100.0	100.0	100.0	100.0	100.0

PERIOD: (PRIMARY) 1891-1969  
(OVER-ALL) 1854-1969

NOVEMBER

AREA 0012 CAPE NELSON  
38.45 141.1E

TABLE 4

PERCENTAGE FREQUENCY OF WIND SPEED BY HOUR (GMT)

HOUR	CALM	1-3	4-10	WIND SPEED (KNOTS)			48+	MEAN	PCT FREQ	TOTAL OBS
				11-21	22-33	34-47				
00003	1.2	4.3	35.1	38.2	17.1	3.7	.5	14.6	100.0	820
06009	1.5	3.2	33.5	40.9	15.8	4.1	1.1	15.2	100.0	469
12015	.8	5.3	33.0	43.2	14.3	3.0	.5	14.4	100.0	609
18021	1.9	4.2	38.7	38.7	12.3	4.2	.2	14.0	100.0	432
TOT	30	100	813	935	354	85	13	14.5		2330
PCT	1.3	4.3	34.9	40.1	15.2	3.6	.6		100.0	

TABLE 5

PCT FREQ OF TOTAL CLOUD AMOUNT (EIGHTHS)  
BY WIND DIRECTION

WIND DIR	0-2	3-4	5-7	8 & OBS	TOTAL OBS	MEAN CLOUD COVER
N	1.5	.8	1.8	1.8	4.8	4.8
NE	1.4	1.5	1.3	1.4	4.6	4.6
E	3.2	2.0	2.5	1.5	4.0	4.0
SE	2.7	2.2	2.8	2.9	4.7	4.7
S	2.3	1.9	5.7	5.3	5.6	5.6
SW	2.7	3.3	6.5	4.9	5.4	5.4
W	3.4	6.0	10.1	6.1	5.4	5.4
NW	1.7	1.6	3.1	2.4	5.0	5.0
VAR	.0	.0	.0	.0	.0	.0
CALM	.7	.3	.3	.2	3.4	3.4
TOT OBS	116	117	201	157	591	5.1
TOT PCT	19.6	19.8	34.0	26.6	100.0	

TABLE 6

PERCENTAGE FREQUENCY OF CEILING HEIGHTS (FT, NH >4/8)  
AND OCCURRENCE OF NH <5/8 BY WIND DIRECTION

WIND DIRECTION											
000	150	300	600	1000	2000	3500	5000	6500	8000+	NH <5/8	TOTAL
149	299	599	999	1999	3499	4999	6499	7999		ANY HGT	OBS
.0	.0	.0	.6	.8	.5	.2	.1	.0	.0	3.6	
.2	.0	.0	.9	.2	.7	.1	.2	.0	.2	3.4	
.0	.0	.4	.2	.7	.3	.4	.3	.1	.0	6.6	
.2	.0	.6	1.4	1.6	.7	.3	*	*	.2	5.5	
.0	.0	.0	2.4	4.8	1.8	.7	.1	.0	.0	5.5	
.0	.2	.4	1.3	5.8	1.2	.4	.2	.2	.2	7.6	
.0	.1	.5	1.9	6.1	1.4	1.4	.1	.1	.7	13.2	
.0	*	.1	.6	1.5	1.3	.2	.1	.0	.3	4.7	
.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
.0	.0	.0	.3	.0	.0	.0	.0	.0	.0	1.2	
2	2	12	27	127	47	22	7	3	9	303	
.3	.3	2.0	9.6	21.5	8.0	3.7	1.2	.5	1.5	51.3	591

TABLE 7

CUMULATIVE PCT FREQ OF SIMULTANEOUS OCCURRENCE  
OF CEILING HEIGHT (NH >4/8) AND VSBY (NM)

CEILING (FEET)	VSBY (NM)							
	* OR >10	* OR >5	* OR >2	* OR >1	* OR >1/2	* OR >1/4	* OR >50YD	* OR >0
* OR >5500	1.2	1.7	2.0	2.0	2.0	2.0	2.0	2.0
* OR >5000	2.2	2.8	3.2	3.2	3.2	3.2	3.2	3.2
* OR >3500	5.5	6.7	7.0	7.0	7.0	7.0	7.0	7.0
* OR >2000	11.3	14.3	14.8	14.8	14.8	14.8	14.8	14.8
* OR >1000	27.3	35.4	35.9	36.1	36.1	36.1	36.1	36.1
* OR >600	33.9	44.8	45.8	45.9	45.9	45.9	45.9	45.9
* OR >300	35.3	46.6	47.6	47.9	47.9	47.9	47.9	47.9
* OR >150	35.6	46.9	47.9	48.3	48.3	48.3	48.3	48.3
* OR > 0	35.6	47.1	48.1	48.4	48.4	48.4	48.6	48.6
TOTAL	214	283	289	291	291	291	292	292

TOTAL NUMBER OF OBS: 601

PCT FREQ NH <5/8: 51.4

TABLE 7A

PERCENTAGE FREQ OF LOW CLOUDS (EIGHTHS)

0	1	2	3	4	5	6	7	8 OBS	TOTAL OBS
10.7	10.4	11.4	8.2	9.6	7.6	9.1	10.4	22.4	657

PERIOD: (PRIMARY) 1891-1969  
(OVER-ALL) 1854-1969

NOVEMBER

AREA 0012 CAPE NELSON  
38.45 141.1E

TABLE 8

PERCENT FREQ OF WIND DIRECTION VS OCCURRENCE OR NON-OCCURRENCE OF  
PRECIPITATION WITH VARYING VALUES OF VISIBILITY

VSBY (NM)		N	NE	E	SE	S	SW	W	NW	VAR	CALM	PCT	TOTAL OBS
<1/2	PCP	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
	NO PCP	.2	*	.0	.2	.0	.1	.2	.1	.0	.0	.8	
	TOT %	.2	*	.0	.2	.0	.1	.2	.1	.0	.0	.8	
1/2<1	PCP	.1	.0	.0	.0	.0	.2	.0	.2	.0	.0	.5	
	NO PCP	.2	.2	.2	.3	.1	.6	.6	.5	.0	.0	2.5	
	TOT %	.3	.2	.2	.3	.1	.7	.6	.7	.0	.0	3.0	
1<2	PCP	.0	.0	.0	.0	.0	.0	.1	*	.0	.0	.2	
	NO PCP	*	*	.1	*	.0	.0	.1	.1	.0	.0	.4	
	TOT %	*	*	.1	*	.0	.0	.2	.2	.0	.0	.5	
2<5	PCP	.0	.0	.0	.0	.1	.0	.0	.1	.0	.0	.2	
	NO PCP	.0	.0	.0	.1	.0	*	.2	.1	.0	.0	.4	
	TOT %	.0	.0	.0	.1	.1	*	.2	.2	.0	.0	.5	
5<10	PCP	.5	.8	.6	.4	.9	2.1	1.6	.8	.0	.1	7.6	
	NO PCP	2.9	3.0	4.4	4.4	5.3	7.2	9.7	4.1	.0	.0	41.0	
	TOT %	3.4	3.8	5.0	4.8	6.1	9.3	11.3	4.9	.0	.1	48.6	
10+	PCP	.2	.1	.1	.0	.5	.4	.7	.2	.0	.0	2.1	
	NO PCP	2.6	2.5	4.1	5.2	6.9	8.5	10.6	3.5	.0	.6	44.4	
	TOT %	2.7	2.5	4.2	5.2	7.4	8.8	11.4	3.7	.0	.6	46.5	
TOT OBS													1313
TOT PCT		6.6	6.5	9.5	10.6	13.7	19.0	23.8	9.7	.0	.7	100.0	

TABLE 9

PERCENT FREQ OF WIND DIRECTION VS WIND SPEED  
WITH VARYING VALUES OF VISIBILITY

VSBY (NM)	SPD KTS	N	NE	E	SE	S	SW	W	NW	VAR	CALM	PCT	TOTAL OBS
<1/2	0-3	.0	.0	.0	.1	.0	.0	.0	.0	.0	.0	.1	
	4-10	*	*	.0	.1	.0	.1	.2	.1	.0	.0	.5	
	11-21	.1	.0	.0	.0	.0	.0	.0	.0	.0	.0	.1	
	22+	.0	.0	.0	.1	.0	.0	.0	.0	.0	.0	.1	
	TOT %	.2	*	.0	.3	.0	.1	.2	.1	.0	.0	.8	
1/2<1	0-3	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
	4-10	.1	.1	.1	.2	.0	.2	.1	.2	.0	.0	1.0	
	11-21	.1	.0	.1	.0	.1	.2	.2	.2	.0	.0	.8	
	22+	.0	.0	*	*	.0	.2	.2	.3	.0	.0	.7	
	TOT %	.2	.1	.2	.2	.1	.6	.5	.6	.0	.0	2.5	
1<2	0-3	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
	4-10	.0	.1	*	*	*	.0	.0	.0	.0	.0	.2	
	11-21	*	.0	*	*	.0	.0	.1	*	.0	.0	.2	
	22+	.0	.0	.1	.1	.1	.0	.1	.1	.0	.0	.5	
	TOT %	*	.1	.1	.2	.1	.0	.2	.1	.0	.0	.8	
2<5	0-3	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
	4-10	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
	11-21	.0	.0	.1	.1	.1	*	.2	.2	.0	.0	.6	
	22+	.0	.0	.1	.1	.1	*	*	.0	.0	.0	.4	
	TOT %	.0	.0	.1	.3	.2	.1	.3	.2	.0	.0	1.0	
5<10	0-3	.4	.3	.5	.4	.5	.1	.1	.1	.0	.1	2.4	
	4-10	.8	1.2	1.6	1.7	1.9	2.5	1.9	1.4	.0	.0	13.0	
	11-21	1.4	1.5	2.4	1.6	2.3	3.8	5.2	2.0	.0	.0	20.1	
	22+	.4	.2	.1	.6	.7	1.9	2.9	.8	.0	.0	7.7	
	TOT %	3.0	3.2	4.5	4.3	5.4	8.3	10.2	4.3	.0	.1	43.2	
10+	0-3	.4	.1	.0	.3	.5	.2	.2	.1	.0	.0	2.5	
	4-10	1.3	1.6	2.1	3.2	3.8	3.6	2.8	1.6	.0	.0	20.0	
	11-21	1.0	.8	1.7	2.8	3.4	4.0	4.6	1.5	.0	.0	19.9	
	22+	.3	.1	.4	.3	1.1	2.3	4.2	.7	.0	.0	9.3	
	TOT %	2.9	2.6	4.3	6.6	8.7	10.1	11.8	3.9	.0	.6	51.6	
TOT OBS													1545
TOT PCT		6.3	6.1	9.2	11.8	14.4	19.1	23.1	9.2	.0	.7	100.0	



NOVEMBER

PERIOD: (PRIMARY) 1891-1969  
(OVER-ALL) 1854-1969

AREA 0012 CAPE NELSON  
38.45 141.1E

TABLE 10

PERCENT FREQUENCY OF CEILING HEIGHTS (FEET, NH > 4/8) AND  
OCCURRENCE OF NH < 5/8 BY HOUR

HOURL (GMT)	000 149	150 299	300 599	600 999	1000 1999	2000 3499	3500 4999	5000 6499	6500 7999	8000+	TOTAL	NH < 5/8 ANY HGT	TOTAL DBS
00603	.6	.6	2.3	10.7	23.7	11.3	3.4	.0	.6	3.4	56.5	43.5	177
06609	.0	.0	1.2	10.0	20.0	5.3	2.4	1.2	.6	1.2	41.8	58.2	170
12615	.7	.0	1.4	10.6	20.4	7.0	3.5	2.8	.7	.0	47.2	52.8	142
18621	.0	.8	3.0	6.0	17.3	6.0	6.0	.8	.0	.8	40.6	59.4	133
TOT	2	2	12	59	128	47	23	7	3	9	292	330	622
PCT	.3	.3	1.9	9.5	20.6	7.6	3.7	1.1	.5	1.4	46.9	53.1	100.0

TABLE 11

PERCENT FREQUENCY VSBY (NM) BY HOUR

HOURL (GMT)	<1/2	1/2<1	1<2	2<5	5<10	10+	TOTAL DBS
00603	.8	3.1	.6	1.0	44.7	49.7	481
06609	1.4	2.2	1.4	.3	39.6	55.2	359
12615	.7	2.3	.7	1.4	49.7	45.2	431
18621	.6	2.4	.6	1.2	40.7	54.4	329
TOT	14	41	13	16	705	811	1600
PCT	.9	2.6	.8	1.0	44.1	50.7	100.0

TABLE 12

CUMULATIVE PCT FREQ OF RANGES OF VSBY (NM) AND/OR  
CEILING HGT (FEET, NH > 4/8), BY HOUR

HOURL (GMT)	<150 <50YD	<600 <1	<1000 <5	1000+ AND 5+	NH < 5/8 AND 5+	TOTAL DBS
00603	.6	3.4	15.5	42.0	42.5	174
06609	.0	1.2	12.4	31.7	55.9	161
12615	.7	2.2	14.0	35.3	50.7	136
18621	.0	3.8	10.0	31.5	58.5	130
TOT	2	16	79	213	309	601
PCT	.3	2.7	13.1	35.4	51.4	100.0

TABLE 13

PERCENT FREQUENCY OF RELATIVE HUMIDITY BY TEMP

TEMP F	0-29	30-39	40-49	50-59	60-69	70-79	80-89	90-100	TOTAL DBS	PCT FREQ
80/84	.0	.1	.0	.0	.0	.0	.0	.0	1	.1
75/79	.0	.1	.1	.3	.0	.0	.0	.0	4	.5
70/74	.0	.0	.1	.5	.4	.0	.0	.1	9	1.1
65/69	.0	.0	.0	.6	.8	1.1	.3	.1	23	2.9
60/64	.0	.0	.1	.3	2.6	7.4	4.3	1.1	126	15.8
55/59	.0	.0	.0	.8	8.4	21.1	20.1	10.0	481	60.4
50/54	.0	.0	.0	.8	4.1	5.4	6.6	1.9	150	18.8
45/49	.0	.0	.0	.0	.0	.1	.3	.0	3	.4
TOTAL	0	2	3	25	130	280	251	106	797	100.0
PCT	.0	.3	.4	3.1	16.3	35.1	31.5	13.3		

TABLE 14

PERCENT FREQUENCY OF WIND DIRECTION BY TEMP

	N	NE	E	SE	S	SW	W	NW	VAR	CALM
80/84	.1	.0	.0	.0	.0	.0	.0	.0	.0	.0
75/79	.2	.0	.0	.0	.0	.0	.1	.2	.0	.0
70/74	.7	.3	.0	.0	.0	.0	.1	.1	.0	.0
65/69	.7	.6	.3	.1	.0	.0	.3	.9	.0	.0
60/64	2.3	1.4	1.2	1.4	.8	2.2	4.5	1.9	.0	.1
55/59	2.2	2.6	6.1	7.0	9.4	11.8	16.2	4.5	.0	.8
50/54	.2	.2	.7	2.4	5.6	5.5	3.5	.8	.0	.1
45/49	.0	.0	.0	.0	.2	.1	.1	.0	.0	.0
TOTAL	6.5	5.1	8.2	10.9	16.0	19.5	24.7	8.2	.0	1.0

TABLE 15

MEANS, EXTREMES AND PERCENTILES OF TEMP (DEG F) BY HOUR

HOURL (GMT)	MAX	99%	95%	50%	5%	1%	MIN	MEAN	TOTAL DBS
00603	80	72	66	57	53	50	47	58.2	791
06609	80	72	66	58	53	51	49	58.5	486
12615	76	68	64	56	52	50	46	56.4	610
18621	72	65	62	55	51	49	46	55.8	437
TOT	80	71	65	57	52	50	46	57.3	2304

TABLE 16

PERCENT FREQUENCY OF RELATIVE HUMIDITY BY HOUR

HOURL (GMT)	0-29	30-39	40-49	50-59	60-69	70-79	80-89	90-100	MEAN	TOTAL DBS
00603	.0	3.1	17.5	42.8	24.5	12.2	7.7	22.9		
06609	.0	5.3	22.3	36.4	28.2	7.8	76	206		
12615	.0	3.5	9.4	29.2	40.1	17.8	81	202		
18621	.0	4.0	14.5	31.2	34.1	16.2	79	173		
TOT	0	32	130	286	254	108	78	810		

PERIOD: (PRIMARY) 1891-1969  
(OVER-ALL) 1854-1969

NOVEMBER

AREA 0012 CAPE NELSON  
38.45 141.1E

TABLE 17

PCT FREQ OF AIR TEMPERATURE (DEG F) AND THE OCCURRENCE OF FOG (WITHOUT PRECIPITATION)  
VS AIR-SEA TEMPERATURE DIFFERENCE (DEG F)

AIR-SEA TMP DIF	45	49	53	57	61	65	69	73	77	TOT	N FOG	WD FOG
	52	56	60	64	68	72	76	80				
20/22		.0	.0	.0	.0	.0	.0	.1		1	.0	.1
17/19	.0	.0	.0	.0	.0	.0	.0	.1		1	.0	.1
14/16	.0	.0	.0	.0	.0	.0	.4	.0		5	.0	.4
11/13	.0	.0	.0	.0	.0	.1	.5	.2	.0	9	.0	.8
9/10	.0	.0	.0	.0	.1	.2	.1	.1	.0	5	.0	.4
7/8	.0	.0	.0	.2	.7	.4	.3	.0	.0	19	.0	1.6
6	.0	.0	.0	.3	.6	.2	.0	.0	.0	12	.2	.8
5	.0	.0	.3	.6	1.6	.7	.0	.0	.0	37	.1	3.0
4	.0	.0	.1	1.1	2.5	.4	.0	.0	.0	49	.1	4.0
3	.0	.0	.3	2.2	2.7	.3	.0	.0	.0	65	.3	5.2
2	.0	.0	.7	4.2	1.8	.1	.0	.0	.0	80	.2	6.6
1	.0	.3	2.5	7.5	.9	.0	.0	.0	.0	134	.6	10.7
0	.0	.0	7.1	6.4	.8	.0	.0	.0	.0	194	.4	15.9
-1	.0	.3	9.1	6.3	.2	.0	.0	.0	.0	189	.9	15.0
-2	.0	.4	10.2	2.8	.0	.0	.0	.0	.0	159	.5	12.9
-3	.0	.6	7.0	.8	.0	.0	.0	.0	.0	99	.3	8.1
-4	.1	.8	3.9	.3	.0	.0	.0	.0	.0	61	.1	5.0
-5	.0	.9	2.7	.0	.0	.0	.0	.0	.0	43	.0	3.6
-6	.0	.3	1.0	.0	.0	.0	.0	.0	.0	16	.0	1.3
-7/-8	.0	.3	.2	.0	.0	.0	.0	.0	.0	6	.0	.5
-9/-10	.1	.1	.3	.0	.0	.0	.0	.0	.0	6	.0	.5
TOTAL	2	49	411	140	27	11	8	2		1190	42	1148
PCT	.2	4.1	45.4	34.5	11.8	2.3	.9	.7	.2	100.0	3.5	96.5

PERIOD: (OVER-ALL) 1963-1969

TABLE 18

PCT FREQ OF WIND SPEED (KTS) AND DIRECTION VERSUS SEA HEIGHTS (FT)

HGT	N						PCT	NE						PCT
	1-3	4-10	11-21	22-33	34-47	48+		1-3	4-10	11-21	22-33	34-47	48+	
<1	.7	.0	.0	.0	.0	.0	.7	.0	.2	.0	.0	.0	.0	.2
1-2	.5	1.2	.7	.0	.0	.0	2.4	.0	.9	.2	.0	.0	.0	1.2
3-4	.0	.7	1.5	.0	.0	.0	.0	.0	.8	.1	.0	.0	.0	.9
5-6	.2	.0	.4	.2	.0	.0	.9	.0	.2	.6	.1	.0	.0	1.0
7	.0	.0	.5	.2	.0	.0	.7	.0	.0	.0	.2	.0	.0	.2
8-9	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
10-11	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
12	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
13-16	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
17-19	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
20-22	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
23-25	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
26-32	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
33-40	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
41-48	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
49-60	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
61-70	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
71-86	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
87+	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
TOT PCT	1.5	1.9	3.1	.4	.0	.0	7.0	.0	2.2	.9	.4	.0	.0	3.5

HGT	E						PCT	SE						PCT
	1-3	4-10	11-21	22-33	34-47	48+		1-3	4-10	11-21	22-33	34-47	48+	
<1	.2	.4	.0	.0	.0	.0	.7	.0	.6	.0	.0	.0	.0	.6
1-2	.0	1.8	.7	.0	.0	.0	2.5	.2	2.7	.9	.0	.0	.0	3.9
3-4	.0	1.1	.6	.0	.0	.0	1.7	.0	1.0	3.5	.0	.0	.0	4.5
5-6	.0	.2	2.1	.9	.0	.0	3.2	.0	.3	1.1	.1	.0	.0	1.5
7	.0	.0	.9	.0	.0	.0	.9	.0	.0	.4	.0	.0	.0	.4
8-9	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
10-11	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
12	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
13-16	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
17-19	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
20-22	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
23-25	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
26-32	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
33-40	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
41-48	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
49-60	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
61-70	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
71-86	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
87+	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
TOT PCT	.2	3.5	4.4	.9	.0	.0	9.0	.2	4.6	6.0	.1	.0	.0	10.9

PERIOD: (OVER-ALL) 1963-1969

NOVEMBER

AREA 0012 CAPE NELSON  
38.45 141.1E

TABLE 18 (CONT)

PCT FREQ OF WIND SPEED (KTS) AND DIRECTION VERSUS SEA HEIGHTS (FT)

HGT	S							PCT	SW							PCT
	1-3	4-10	11-21	22-33	34-47	48+			1-3	4-10	11-21	22-33	34-47	48+		
<1	1.0	.7	.0	.0	.0	.0		1.7	.0	1.6	.0	.0	.0	.0		1.6
1-2	.2	2.3	.6	.0	.0	.0		3.2	.0	1.8	.5	.0	.0	.0		2.3
3-4	.0	1.4	1.2	.2	.0	.0		2.9	.0	1.2	3.5	.6	.0	.0		5.7
5-6	.0	.0	2.1	.2	.2	.0		2.5	.0	.0	2.2	.7	.1	.0		5.0
7	.0	.0	1.5	.7	.0	.0		2.2	.0	.0	1.5	.5	.5	.0		2.5
8-9	.0	.0	.0	.2	.0	.0		.2	.0	.0	.2	.9	.7	.0		1.9
10-11	.0	.0	.0	.7	.2	.0		.9	.0	.0	.3	.1	.0	.0		.4
12	.0	.0	.0	.0	.0	.0		.0	.0	.0	.0	.5	.0	.0		.5
13-16	.0	.0	.0	.0	.0	.0		.0	.0	.0	.2	.0	.0	.0		.2
17-19	.0	.0	.0	.0	.0	.0		.0	.0	.0	.0	.0	.0	.0		.0
20-22	.0	.0	.0	.0	.2	.0		.2	.0	.0	.0	.0	.0	.0		.0
23-25	.0	.0	.0	.0	.0	.0		.0	.0	.0	.0	.0	.0	.0		.0
26-32	.0	.0	.0	.0	.0	.0		.0	.0	.0	.0	.0	.0	.0		.0
33-40	.0	.0	.0	.0	.0	.0		.0	.0	.0	.0	.0	.0	.0		.0
41-48	.0	.0	.0	.0	.0	.0		.0	.0	.0	.0	.0	.0	.0		.0
49-60	.0	.0	.0	.0	.0	.0		.0	.0	.0	.0	.0	.0	.0		.0
61-70	.0	.0	.0	.0	.0	.0		.0	.0	.0	.0	.0	.0	.0		.0
71-86	.0	.0	.0	.0	.0	.0		.0	.0	.0	.0	.0	.0	.0		.0
87+	.0	.0	.0	.0	.0	.0		.0	.0	.0	.0	.0	.0	.0		.0
TOT PCT	1.2	4.4	5.5	2.1	.7	.0		13.9	.0	4.9	8.5	3.3	1.3	.0		18.0

HGT	W							PCT	NW							PCT	TOTAL PCT
	1-3	4-10	11-21	22-33	34-47	48+			1-3	4-10	11-21	22-33	34-47	48+			
<1	.0	.7	.0	.0	.0	.0		.7	.0	.2	.0	.0	.0	.0		.2	
1-2	.2	3.1	.7	.0	.0	.0		4.0	.0	1.7	.1	.0	.0	.0		1.9	
3-4	.0	1.5	3.5	.6	.0	.0		5.6	.0	1.7	1.9	.0	.0	.0		3.7	
5-6	.0	.7	4.2	1.2	.0	.0		6.1	.0	.2	.7	.3	.0	.0		1.2	
7	.0	.0	1.6	2.5	.2	.0		4.4	.0	.0	.6	1.0	.1	.0		1.6	
8-9	.0	.0	.5	1.1	1.0	.0		2.5	.0	.0	.0	.1	.2	.0		.3	
10-11	.0	.0	.2	.6	.4	.0		1.2	.0	.0	.2	.1	.1	.0		.5	
12	.0	.0	.0	.2	.0	.0		.2	.0	.0	.0	.0	.0	.0		.0	
13-16	.0	.0	.0	.4	.4	.0		.7	.0	.0	.0	.1	.1	.0		.2	
17-19	.0	.0	.0	.0	.2	.0		.2	.0	.0	.0	.0	.1	.0		.1	
20-22	.0	.0	.0	.0	.2	.0		.4	.0	.0	.0	.0	.0	.0		.1	
23-25	.0	.0	.0	.0	.0	.0		.0	.0	.0	.0	.0	.0	.0		.0	
26-32	.0	.0	.0	.0	.0	.0		.0	.0	.0	.0	.0	.0	.0		.0	
33-40	.0	.0	.0	.0	.0	.0		.0	.0	.0	.0	.0	.0	.0		.0	
41-48	.0	.0	.0	.0	.0	.0		.0	.0	.0	.0	.0	.0	.0		.0	
49-60	.0	.0	.0	.0	.0	.0		.0	.0	.0	.0	.0	.0	.0		.0	
61-70	.0	.0	.0	.0	.0	.0		.0	.0	.0	.0	.0	.0	.0		.0	
71-86	.0	.0	.0	.0	.0	.0		.0	.0	.0	.0	.0	.0	.0		.0	
87+	.0	.0	.0	.0	.0	.0		.0	.0	.0	.0	.0	.0	.0		.0	
TOT PCT	.2	6.0	10.6	6.7	2.3	.2		26.1	.0	4.0	3.5	1.6	.7	.0		9.8	98.3

WIND SPEED (KTS) VS SEA HEIGHT (FT)

HGT	0-3	4-10	11-21	22-33	34-47	48+	PCT	TOT DBS
<1	4.0	4.5	.0	.0	.0	.0	.0	8.4
1-2	1.2	15.6	4.5	.0	.0	.0	.0	21.3
3-4	.0	9.9	15.8	1.5	.0	.0	.0	27.2
5-6	.2	1.7	13.4	3.7	.2	.0	.0	19.3
7	.0	.0	6.9	5.2	.7	.0	.0	12.9
8-9	.0	.0	.7	2.2	2.0	.0	.0	5.0
10-11	.0	.0	.7	1.5	.7	.0	.0	3.0
12	.0	.0	.0	.7	.0	.0	.0	.7
13-16	.0	.0	.2	.5	.5	.0	.0	1.2
17-19	.0	.0	.0	.0	.2	.0	.0	.2
20-22	.0	.0	.0	.0	.0	.0	.0	.7
23-25	.0	.0	.0	.0	.0	.0	.0	.0
26-32	.0	.0	.0	.0	.0	.0	.0	.0
33-40	.0	.0	.0	.0	.0	.0	.0	.0
41-48	.0	.0	.0	.0	.0	.0	.0	.0
49-60	.0	.0	.0	.0	.0	.0	.0	.0
61-70	.0	.0	.0	.0	.0	.0	.0	.0
71-86	.0	.0	.0	.0	.0	.0	.0	.0
87+	.0	.0	.0	.0	.0	.0	.0	.0
TOT PCT	5.4	31.7	42.3	15.3	5.0	.2	100.0	404

PERIOD: (OVER-ALL) 1949-1969

TABLE 19

PERCENT FREQUENCY OF WAVE HEIGHT (FT) VS WAVE PERIOD (SECONDS)

PERIOD (SEC)	<1	1-2	3-4	5-6	7	8-9	10-11	12	13-16	17-19	20-22	23-25	26-32	33-40	41-48	49-60	61-70	71-86	87+	TOTAL	MEAN HGT
<6	.4	2.9	5.9	4.0	1.8	.5	.7	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	96
6-7	.0	.9	4.7	8.7	6.9	2.9	2.2	.5	1.1	.5	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	157
8-9	.0	.5	2.0	4.2	6.2	4.9	2.6	2.4	2.7	.0	.5	.2	.0	.0	.0	.0	.0	.0	.0	.0	144
10-11	.0	.0	.5	1.5	3.3	3.1	1.8	1.3	.9	.0	.4	.5	.2	.0	.0	.0	.0	.0	.0	.0	74
12-13	.0	.0	.2	.2	1.1	.9	.7	.9	.9	.0	.5	.0	.0	.0	.0	.0	.0	.0	.0	.0	35
>13	.0	.0	.0	.2	.5	.4	.0	.0	.7	.7	.4	.0	.4	.0	.0	.0	.0	.0	.0	.0	18
INDET	.2	.2	.9	.5	.9	.7	1.1	.5	.2	.4	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	31
TOTAL	3	25	84	106	114	74	50	31	36	9	10	4	3	0	0	0	0	0	0	0	549
PCT	.5	4.6	15.3	19.3	20.8	13.5	9.1	5.6	6.6	1.6	1.8	.7	.5	.0	.0	.0	.0	.0	.0	.0	100.0

PERIOD: (PRIMARY) 1890-1971  
(OVER-ALL) 1854-1971

DECEMBER

AREA 0012 CAPE NELSON  
38.45 141.1E

TABLE 1

PERCENT FREQUENCY OF WEATHER OCCURRENCE BY WIND DIRECTION

WIND DIR	PRECIPITATION TYPE							OTHER WEATHER PHENOMENA							
	RAIN	RAIN SHWR	DRZL	FRZG PCPN	SNOW	OTHER FRZN PCPN	HAIL	PCPN AT DB TIME	PCPN PAST HOUR	THDR LTNG	FOG WD PCPN	FOG WD PCPN PAST HR	SMOKE HAZE	SPRAY BLWG DUST SNOW	NO SIG WEA
N	5.5	1.8	2.8	.0	.0	.0	.0	10.1	4.6	3.7	3.7	.0	.9	.0	80.6
NE	2.9	.0	2.9	.0	.0	.0	.0	5.7	1.2	.0	8.6	.0	1.4	.0	83.1
E	1.3	.7	.0	.0	.0	.0	.0	2.0	.0	.0	7.2	.0	.0	.0	90.8
SE	1.7	.3	.0	.0	.0	.0	.0	2.0	.6	.8	6.1	.0	1.1	.0	89.4
S	.9	3.3	2.0	.0	.0	.0	.0	6.3	1.4	1.5	3.1	.0	.0	.0	87.7
SW	1.7	7.7	.6	.0	.0	.0	.0	10.0	2.5	.6	4.7	.0	.0	.0	82.6
W	4.3	7.8	3.0	.0	.0	.0	.0	15.1	4.1	.0	4.0	.0	.4	.0	76.5
NW	3.0	5.0	5.3	.0	.0	.0	.0	13.3	8.0	2.7	.0	.0	.3	.0	77.1
VAR	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
CALM	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	25.0	.0	.0	.0	75.0
TOT PCT	2.3	3.9	1.6	.0	.0	.0	.0	7.9	2.3	.8	4.9	.0	.4	.0	84.0
TOT OBS:	1221														

TABLE 2

PERCENT FREQUENCY OF WEATHER OCCURRENCE BY HOUR

HOUR (GMT)	PRECIPITATION TYPE							OTHER WEATHER PHENOMENA							
	RAIN	RAIN SHWR	DRZL	FRZG PCPN	SNOW	OTHER FRZN PCPN	HAIL	PCPN AT DB TIME	PCPN PAST HOUR	THDR LTNG	FOG WD PCPN	FOG WD PCPN PAST HR	SMOKE HAZE	SPRAY BLWG DUST SNOW	NO SIG WEA
00003	1.8	6.1	.8	.0	.0	.0	.0	8.7	3.3	.0	4.8	.0	.0	.0	83.2
06009	1.6	2.9	1.0	.0	.0	.0	.0	5.4	1.6	.0	5.4	.0	.3	.0	87.3
12015	3.1	2.8	1.7	.0	.0	.0	.0	7.7	1.0	1.0	4.9	.0	.3	.0	85.7
18021	2.9	2.9	3.7	.0	.0	.0	.0	9.6	2.6	2.6	4.4	.0	1.1	.0	80.5
TOT PCT	2.3	3.9	1.7	.0	.0	.0	.0	7.8	2.2	.8	4.9	.0	.4	.0	84.2
TOT OBS:	1264														

TABLE 3

PERCENTAGE FREQUENCY OF WIND DIRECTION BY SPEED AND BY HOUR

WIND DIR	WIND SPEED (KNOTS)							48+	TOTAL OBS	PCT FREQ	MEAN SPD	HOUR (GMT)						
	0-3	4-10	11-21	22-33	34-47	00	03					06	09	12	15	18	21	
N	.4	2.1	1.2	.5	.2	.0	4.4	12.2	5.5	6.8	3.5	.0	2.4	5.1	3.7	5.7		
NE	.3	3.9	2.7	.3	.0	.0	7.2	10.7	8.1	7.2	4.9	8.7	5.4	5.3	10.2	15.9		
E	.7	5.2	5.3	.9	.0	.0	12.1	12.0	12.5	10.1	12.7	14.7	12.0	13.7	11.4	13.6		
SE	.6	5.5	7.1	1.0	.1	.0	14.3	12.5	11.7	12.5	15.9	16.7	17.3	16.1	13.8	10.2		
S	.6	6.5	6.1	1.7	.4	.0	15.4	13.1	14.5	11.7	16.0	21.3	17.3	19.2	15.0	9.1		
SW	.7	7.6	8.0	3.5	.6	.0	20.3	14.5	18.8	18.4	20.3	25.3	22.7	19.8	20.5	28.4		
W	.7	5.2	7.7	3.7	.8	.1	18.1	16.4	20.3	22.5	19.1	9.3	16.2	12.8	17.8	11.4		
NW	.4	2.3	2.8	1.1	.2	.0	6.8	14.8	7.8	9.1	6.8	2.7	5.6	5.9	6.2	3.4		
VAR	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0		
CALM	1.2						1.2	.0	.8	1.6	.8	1.3	1.0	2.2	1.3	2.3		
TOT OBS	123	839	890	276	51	3	2182			397	380	391	75	294	227	374		
TOT PCT	5.6	38.5	40.8	12.6	2.3	.1		100.0		100.0	100.0	100.0	100.0	100.0	100.0	100.0		

TABLE 3A

WIND DIR	0-6	WIND SPEED (KNOTS)				41+	TOTAL OBS	PCT FREQ	MEAN SPD	HOUR (GMT)			
		7-16	17-27	28-40	00 03					06 09	12 15	18 21	
N	1.4	1.8	.7	.4	*		4.4	12.2	6.2	3.0	3.6	3.9	
NE	1.8	4.3	1.1	.1	.0		7.2	10.7	7.7	5.5	5.3	10.8	
E	2.3	6.8	2.8	.3	.0		12.1	12.0	11.4	13.0	12.7	11.7	
SE	2.6	7.6	3.8	.3	*		14.3	12.5	12.1	16.0	16.8	13.4	
S	3.0	7.8	3.8	.8	*		15.4	13.1	13.1	16.9	18.1	14.4	
SW	3.3	9.0	6.5	1.5	.1		20.3	14.5	18.0	21.1	21.4	21.4	
W	2.5	6.9	6.3	2.3	.2		18.1	16.4	21.4	17.5	14.7	17.2	
NW	1.3	2.7	2.1	.7	*		6.8	14.8	8.4	6.1	5.8	5.9	
VAR	.0	.0	.0	.0	.0		.0	.0	.0	.0	.0	.0	
CALM	1.2						1.2	.0	1.2	.9	1.5	1.4	
TOT OBS	423	1023	592	135	9	2182		13.5	777	466	521	418	
TOT PCT	19.4	46.9	27.1	6.2	.4		100.0		100.0	100.0	100.0	100.0	

DECEMBER

PERIOD: (PRIMARY) 1890-1971  
(OVER-ALL) 1854-1971

AREA 0012 CAPE NELSON  
38.45 141.1E

TABLE 4

PERCENTAGE FREQUENCY OF WIND SPEED BY HOUR (GMT)

HOUR	CALM	1-3	4-10	WIND SPEED (KNOTS)			48+	MEAN	PCT FREQ	TOTAL OBS
				11-21	22-33	34-47				
00003	1.2	3.9	39.1	39.6	13.8	2.3	.1	13.7	100.0	777
06009	.9	4.1	35.6	45.3	11.6	2.6	.0	13.8	100.0	466
12015	1.5	4.6	38.2	41.3	11.5	2.7	.2	13.4	100.0	521
18021	1.4	5.5	40.7	37.3	13.2	1.7	.2	13.1	100.0	418
TOT	27	90	839	890	276	51	3	13.5		2182
PCT	1.2	4.4	36.5	40.8	12.6	2.3	.1	100.0		

TABLE 5

PCT FREQ OF TOTAL CLOUD AMOUNT (EIGHTHS)  
BY WIND DIRECTION

WIND DIR	0-2	3-4	5-7	8 & OBS	TOTAL CLOUD OBS	MEAN COVER
N	.6	.5	.8	1.1		5.2
NE	3.0	.7	1.5	.7		3.3
E	4.8	1.5	3.7	1.1		3.6
SE	3.8	2.3	3.5	4.3		4.8
S	2.1	2.5	4.7	6.1		5.8
SW	3.3	3.9	8.7	5.5		5.4
W	2.3	4.8	8.7	4.8		5.4
NW	1.4	1.2	2.5	3.0		5.6
VAR	.0	.0	.0	.0		.0
CALM	.2	.0	.2	.0		4.5
TOT OBS	118	96	187	146	547	5.1
TOT PCT	21.6	17.6	34.2	26.7	100.0	

TABLE 6

PERCENTAGE FREQUENCY OF CEILING HEIGHTS (FT, NH >4/8)  
AND OCCURRENCE OF NH <5/8 BY WIND DIRECTION

000	150	300	600	1000	2000	3500	5000	6500	8000+	NH <5/8	TOTAL
149	299	599	999	1999	3499	4999	6499	7999		ANY HGT	OBS
.0	.1	.0	.3	.6	.1	.2	.0	.0	.0	1.7	
.0	.0	.0	.4	.5	.3	.4	.0	.0	.0	4.4	
.0	.0	.0	.5	.9	.7	.9	.2	.0	.2	7.8	
.0	.0	.3	1.5	2.0	2.4	.0	.0	.0	.0	7.9	
.0	.1	.8	1.3	3.5	2.3	.8	.4	.0	.2	6.0	
.2	.2	1.1	1.5	4.3	2.2	1.8	.5	.2	.0	10.4	
.1	.0	.5	1.6	4.3	1.6	2.5	.1	.0	.2	9.7	
.*	.*	.4	.5	1.4	.7	.4	.1	.2	.0	4.2	
.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
.0	.0	.0	.2	.0	.0	.0	.0	.0	.0	.2	
2	3	11	42	96	57	36	7	2	3	286	547
.4	.5	2.0	7.7	17.6	10.4	6.9	1.3	.4	.5	52.3	100.0

TABLE 7

CUMULATIVE PCT FREQ OF SIMULTANEOUS OCCURRENCE  
OF CEILING HEIGHT (NH >4/8) AND VSBY (NM)

CEILING (FEET)	VSBY (NM)							
	>10	>5	>2	>1	>1/2	>1/4	>50YD	>0
OR >6500	.7	.9	.9	.9	.9	.9	.9	.9
OR >5000	2.0	2.2	2.2	2.2	2.2	2.2	2.2	2.2
OR >3500	8.3	9.5	9.5	9.5	9.5	9.5	9.5	9.5
OR >2000	17.1	19.7	19.7	19.7	19.7	19.7	19.7	19.7
OR >1000	31.1	36.3	37.0	37.0	37.0	37.0	37.0	37.0
OR >600	36.6	43.6	44.5	44.5	44.5	44.5	44.5	44.5
OR >300	37.3	45.2	46.5	46.5	46.5	46.5	46.5	46.5
OR >150	37.7	45.8	47.0	47.0	47.0	47.0	47.0	47.0
OR >0	37.9	46.1	47.4	47.4	47.4	47.4	47.4	47.4
TOTAL	211	257	264	264	264	264	264	264

TOTAL NUMBER OF OBS: 557

PCT FREQ NH <5/8: 52.6

TABLE 7A

PERCENTAGE FREQ OF LOW CLOUDS (EIGHTHS)

	0	1	2	3	4	5	6	7	8	OBS	TOTAL OBS
	10.9	12.0	12.9	8.0	8.8	9.6	8.5	9.3	20.1	.0	626



PERIOD: (PRIMARY) 1890-1971  
(OVER-ALL) 1854-1971

DECEMBER

AREA 0012 CAPE NELSON  
38.45 141.1E

TABLE 8

PERCENT FREQ OF WIND DIRECTION VS OCCURRENCE OR NON-OCCURRENCE OF  
PRECIPITATION WITH VARYING VALUES OF VISIBILITY

VSBY (NM)		N	NE	E	SE	S	SW	W	NW	VAR	CALM	PCT	TOTAL OBS
<1/2	PCP	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
	NO PCP	.0	.1	.2	*	.1	.3	.3	.0	.0	.0	.0	1.0
	TOT %	.0	.1	.2	*	.1	.3	.3	.0	.0	.0	.0	1.0
1/2<1	PCP	.0	.0	.0	.0	.0	.0	.0	.1	.0	.0	.1	
	NO PCP	.2	.7	.7	.8	.3	.6	.2	.0	.0	.1	3.5	
	TOT %	.2	.7	.7	.8	.3	.6	.2	.1	.0	.1	3.6	
1<2	PCP	.0	.0	.0	.0	.0	.0	.0	.1	.0	.0	.1	
	NO PCP	*	.1	.0	.0	.0	.0	.0	.0	.0	.0	.2	
	TOT %	*	.1	.0	.0	.0	.0	.0	.1	.0	.0	.2	
2<5	PCP	.0	.0	.0	.0	.1	.1	.2	.1	.0	.0	.5	
	NO PCP	.0	.0	.0	.1	.0	.1	.2	.0	.0	.0	.4	
	TOT %	.0	.0	.0	.1	.1	.2	.4	.1	.0	.0	.9	
5<10	PCP	.2	.5	.2	.3	.7	1.7	1.8	.4	.0	.0	5.8	
	NO PCP	2.3	4.1	5.2	5.7	6.6	7.9	5.5	2.4	.0	.1	40.7	
	TOT %	2.5	4.5	5.3	7.0	7.4	9.7	7.3	2.8	.0	.1	46.5	
10+	PCP	.2	.0	.1	.0	.2	.2	.5	.1	.0	.0	1.4	
	NO PCP	1.5	3.2	5.1	5.8	7.9	9.7	7.9	2.9	.0	.2	46.4	
	TOT %	1.8	3.2	5.2	5.8	8.1	10.0	8.4	3.1	.0	.2	47.7	
TOT OBS													1221
TOT PCT		4.4	8.6	12.4	14.7	16.0	20.8	16.6	6.2	.0	.3	100.0	

TABLE 9

PERCENT FREQ OF WIND DIRECTION VS WIND SPEED  
WITH VARYING VALUES OF VISIBILITY

VSRY (NM)	SPD KTS	N	NE	E	SE	S	SW	W	NW	VAR	CALM	PCT	TOTAL OBS
<1/2	0-3	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
	4-10	.0	.0	.1	*	*	.1	.3	.0	.0	.0	.6	
	11-21	.0	.1	.1	.0	.0	.1	.0	.0	.0	.0	.2	
	22+	.0	.0	.0	.0	*	*	.0	.0	.0	.0	.1	
	TOT %	.0	.1	.1	*	.1	.2	.3	.0	.0	.0	.8	
1/2<1	0-3	.0	.0	*	.1	.1	.1	.0	.0	.0	.1	.4	
	4-10	.1	.3	.4	.4	.1	.3	.1	.0	.0	.0	1.7	
	11-21	*	.2	.2	.1	.1	.1	.0	.1	.0	.0	.8	
	22+	.0	.0	.0	.0	*	.1	.0	.0	.0	.0	.1	
	TOT %	.1	.6	.6	.7	.3	.5	.1	.1	.0	.1	3.1	
1<2	0-3	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
	4-10	*	*	.0	.0	.0	.0	.0	.1	.0	.0	.1	
	11-21	.0	.1	.0	.1	.0	.0	.0	.0	.0	.0	.2	
	22+	.0	.0	.0	.1	.0	.0	.1	.0	.0	.0	.0	
	TOT %	*	.1	.0	.2	.0	.0	.1	.1	.0	.0	.5	
2<5	0-3	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
	4-10	.0	.0	.0	.0	.1	.1	.1	.0	.0	.0	.3	
	11-21	.0	.0	*	.3	.2	.1	.1	.1	.0	.0	.8	
	22+	.0	.0	.0	.0	.0	.2	.3	.1	.0	.0	.6	
	TOT %	.0	.0	*	.3	.2	.3	.5	.2	.0	.0	1.6	
5<10	0-3	.1	.4	.5	.1	.3	.2	.1	.2	.0	.1	1.9	
	4-10	.6	1.6	1.7	2.8	2.0	2.9	2.1	1.0	.0	.0	14.9	
	11-21	.9	1.9	2.2	2.8	2.5	3.8	3.4	1.0	.0	.0	18.5	
	22+	.6	.1	.3	.2	1.5	1.5	1.1	.3	.0	.0	5.6	
	TOT %	2.2	4.0	4.6	6.0	6.3	8.3	6.7	2.6	.0	.1	40.8	
10+	0-3	.2	.0	.3	.1	.2	.4	.6	.1	.0	.4	2.3	
	4-10	1.0	1.9	2.9	2.8	4.4	4.6	2.5	1.0	.0	.0	21.0	
	11-21	.4	1.3	3.1	4.5	4.2	5.1	4.2	1.7	.0	.0	24.5	
	22+	.2	*	.3	.9	.8	1.3	1.5	.3	.0	.0	5.3	
	TOT %	1.8	3.2	6.6	8.3	9.6	11.4	8.8	3.1	.0	.4	53.2	
TOT OBS													1440
TOT PCT		4.2	8.0	12.0	15.5	16.5	20.8	16.5	6.0	.0	.6	100.0	

DECEMBER

PERIOD: (PRIMARY) 1890-1971  
(OVER-ALL) 1854-1971

AREA 0012 CAPE NELSON  
38.45 141.1F

TABLE 10

PERCENT FREQUENCY OF CEILING HEIGHTS (FEET, NH >4/8) AND  
OCCURRENCE OF NH <5/8 BY HOUR

HOURL (GMT)	000 149	150 299	300 599	600 999	1000 1999	2000 3499	3500 4999	5000 6499	6500 7999	8000+	TOTAL	NH <5/8 ANY HGT	TOTAL OBS
00003	.0	.5	2.1	7.5	16.0	12.8	7.0	.5	1.1	1.1	48.7	51.3	187
06009	1.2	.0	1.8	4.7	13.0	10.7	6.5	.6	.0	.6	39.1	60.9	169
12015	.0	.9	2.8	7.3	14.7	6.4	5.5	2.8	.0	.0	40.4	59.6	109
18021	.0	.8	.8	9.4	21.9	6.3	8.6	1.6	.0	.0	49.2	50.8	128
TOT	2	3	11	42	96	57	41	7	2	3	264	329	593
PCT	.3	.5	1.9	7.1	16.2	9.6	6.9	1.2	.3	.5	44.5	55.5	100.0

TABLE 11

PERCENT FREQUENCY VSBY (NM) BY HOUR

HOURL (GMT)	<1/2	1/2-1	1-2	2-5	5-10	10+	TOTAL OBS
00003	.9	3.0	.4	1.9	42.4	51.3	462
06009	.6	3.6	.3	1.7	38.4	55.4	359
12015	1.1	2.9	.6	1.4	43.7	50.3	348
18021	1.0	2.9	.6	1.0	41.7	52.9	314
TOT	13	46	7	23	617	777	1483
PCT	.9	3.1	.5	1.6	41.6	52.4	100.0

TABLE 12

CUMULATIVE PCT FREQ OF RANGES OF VSBY (NM) AND/OR  
CEILING HGT (FEET, NH >4/8), BY HOUR

HOURL (GMT)	<150 <50YD	<600 CL	<1000 CL	1000+ AND5+	NH <5/8 AND 5+	TOTAL OBS
00003	.0	2.9	12.0	40.6	47.4	175
06009	1.3	3.2	9.0	33.5	57.4	155
12015	.0	3.9	13.6	29.1	57.3	103
18021	.0	1.6	11.3	39.5	49.2	124
TOT	2	16	63	202	292	557
PCT	.4	2.9	11.3	36.3	52.4	100.0

TABLE 13

PERCENT FREQUENCY OF RELATIVE HUMIDITY BY TEMP

TEMP F	0-29	30-39	40-49	50-59	60-69	70-79	80-89	90-100	TOTAL OBS	PCT FREQ
75/79	.0	.0	.1	.0	.0	.1	.0	.0	2	.3
70/74	.0	.0	.0	.1	.3	.5	.3	.3	11	1.5
65/69	.0	.0	.1	.0	1.0	1.9	2.9	1.0	50	6.8
60/64	.0	.0	.1	1.1	3.7	8.9	12.4	6.5	240	32.7
55/59	.0	.0	.0	1.9	9.8	17.2	19.6	7.1	364	49.7
50/54	.0	.0	.0	.3	2.0	3.0	2.5	1.2	66	9.0
TOTAL	0	0	3	25	123	232	232	116	733	100.0
PCT	.0	.0	.4	3.4	16.8	31.7	31.7	16.1		

TABLE 14

PERCENT FREQUENCY OF WIND DIRECTION BY TEMP

N	NE	E	SE	S	SW	W	NW	VAR	CALM
.0	.3	.0	.0	.0	.0	.0	.0	.0	.0
.4	.1	.5	.0	.1	.0	.0	.1	.0	.1
1.4	1.8	1.2	.3	.2	.1	1.2	.7	.0	.0
.8	3.1	6.2	5.2	4.6	3.8	5.6	3.2	.0	.1
.6	1.6	4.0	8.7	9.4	12.3	9.8	3.0	.0	.3
.0	.1	.1	.4	2.4	3.8	2.1	.0	.0	.0
3.2	7.0	12.1	14.6	16.7	20.1	18.7	7.1	.0	.5

TABLE 15

MEANS, EXTREMES AND PERCENTILES OF TEMP (DEG F) BY HOUR

HOURL (GMT)	MAX	99%	95%	50%	5%	1%	MIN	MEAN	TOTAL OBS
00003	75	72	67	59	54	52	50	60.0	753
06009	83	77	67	60	55	54	52	60.5	451
12015	78	69	64	58	54	52	51	58.3	512
18021	74	70	63	57	53	51	48	57.7	418
TOT	83	71	66	59	54	52	48	59.2	2134

TABLE 16

PERCENT FREQUENCY OF RELATIVE HUMIDITY BY HOUR

HOURL (GMT)	0-29	30-59	60-69	70-79	80-89	90-100	MEAN	TOTAL OBS
00003	.0	5.1	19.5	31.8	28.8	14.8	78	236
06009	.0	6.1	20.2	32.8	29.3	11.6	77	198
12015	.0	1.3	12.8	29.5	39.7	16.7	81	156
18021	.0	1.9	12.3	31.6	31.6	22.6	81	155
TOT	0	29	125	235	237	119	79	745

## DECEMBER

PERIOD: (PRIMARY) 1890-1971  
(OVER-ALL) 1854-1971

TABLE 17

AREA 0012 CAPE NELSON  
38.45 141.1EPCT FREQ OF AIR TEMPERATURE (DEG F) AND THE OCCURRENCE OF FOG (WITHOUT PRECIPITATION)  
VS AIR-SEA TEMPERATURE DIFFERENCE (DEG F)

AIR-SEA TMP DIF	49 52	53 56	57 60	61 64	65 68	69 72	73 76	77 80	81 84	TOT	W FOG	WD FOG
14/16	.0	.0	.0	.0	.0	.0	.2	.3	.1	6	.0	.5
11/13	.0	.0	.0	.1	.0	.0	.2	.0	.0	3	.1	.2
9/10	.0	.0	.0	.0	.0	.2	.0	.0	.0	2	.0	.2
7/8	.0	.0	.0	.5	.6	.5	.1	.0	.0	18	.2	1.5
6	.0	.0	.0	.2	1.1	.3	.0	.0	.0	17	.1	1.5
5	.0	.1	.2	1.1	1.4	.2	.0	.0	.0	32	.3	2.7
4	.0	.1	.4	1.4	2.0	.2	.0	.0	.0	44	.4	3.7
3	.0	.1	1.1	3.4	.8	.0	.0	.0	.0	58	.5	4.9
2	.0	.0	1.8	4.7	.7	.2	.0	.0	.0	81	1.1	6.3
1	.2	.5	5.0	4.1	.3	.0	.0	.0	.0	110	.5	9.6
0	.0	1.4	9.3	3.3	.1	.0	.0	.0	.0	153	.6	13.4
-1	.0	2.6	11.5	1.6	.0	.0	.0	.0	.0	170	.6	14.9
-2	.1	4.9	8.1	.7	.0	.0	.0	.0	.0	150	.5	13.3
-3	.0	4.8	3.9	.2	.0	.0	.0	.0	.0	97	.4	8.5
-4	.0	3.8	2.7	.1	.0	.0	.0	.0	.0	73	.2	6.5
-5	.0	2.7	.7	.1	.0	.0	.0	.0	.0	46	.0	4.2
-6	.2	.7	.4	.2	.0	.0	.0	.0	.0	16	.0	1.5
-7/-8	.2	.3	.4	.0	.0	.0	.0	.0	.0	9	.0	.8
-9/-10	.2	.1	.2	.0	.0	.0	.0	.0	.0	5	.0	.5
-11/-13	.0	.1	.0	.0	.0	.0	.0	.0	.0	1	.0	.1
TOTAL	16	240	498	235	77	16	5	3	1	1091	5.8	103.3
PCT	1.5	22.0	45.6	21.5	7.1	1.5	.5	.3	.1	100.0	5.3	94.7

PERIOD: (OVER-ALL) 1963-1971

TABLE 18

PCT FREQ OF WIND SPEED (KTS) AND DIRECTION VERSUS SEA HEIGHTS (FT)

HGT	1-3	4-10	11-21	22-33	34-47	48+	PCT	1-3	4-10	11-21	22-33	34-47	48+	PCT
<1	.0	.6	.0	.0	.0	.0	.6	.0	.6	.0	.0	.0	.0	.6
1-2	.0	.9	.0	.0	.0	.0	.9	.0	1.0	.6	.0	.0	.0	1.6
3-4	.0	.0	.0	.0	.0	.0	.0	.0	1.0	.6	.1	.0	.0	1.6
5-6	.0	.0	.2	.0	.0	.0	.2	.0	.0	.6	.1	.0	.0	.7
7	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
8-9	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
10-11	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
12	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
13-16	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
17-19	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
20-22	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
23-25	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
26-32	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
33-40	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
41-48	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
49-60	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
61-70	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
71-86	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
87+	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
TOT PCT	.0	1.5	.2	.0	.0	.0	1.8	.0	2.6	1.9	.2	.0	.0	4.6

HGT	1-3	4-10	11-21	22-33	34-47	48+	PCT	1-3	4-10	11-21	22-33	34-47	48+	PCT
<1	.0	.2	.0	.0	.0	.0	.2	.0	.4	.0	.0	.0	.0	.4
1-2	.0	1.1	.0	.0	.0	.0	1.1	.0	2.9	1.0	.0	.0	.0	3.9
3-4	.0	.9	2.7	.2	.0	.0	3.8	.0	1.8	4.2	.3	.0	.0	6.3
5-6	.0	.3	2.0	.2	.0	.0	2.6	.0	.3	3.6	1.9	.0	.0	5.8
7	.0	.0	1.8	.9	.0	.0	1.8	.0	.0	1.8	.3	.0	.0	2.1
8-9	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.6	.0	.0	.6
10-11	.0	.0	.2	.0	.0	.0	.2	.0	.0	.1	.0	.1	.0	.2
12	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.1	.0	.1
13-16	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
17-19	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
20-22	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
23-25	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
26-32	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
33-40	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
41-48	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
49-60	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
61-70	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
71-86	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
87+	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
TOT PCT	.0	2.6	6.7	.5	.0	.0	9.8	.0	5.4	10.6	3.2	.2	.0	19.4

PERIOD: (OVER-ALL) 1963-1971

DECEMBER

AREA 0012 CAPE NELSON  
38.45 141.1E

TABLE 18 (CONT)

PCT FREQ OF WIND SPEED (KTS) AND DIRECTION VERSUS SEA HEIGHTS (FT)

HGT	1-3	4-10	11-21	22-33	34-47	48+	PCT	1-3	4-10	11-21	22-33	34-47	48+	PCT
<1	.3	1.8	.0	.0	.0	.0	2.1	.3	.5	.0	.0	.0	.0	.8
1-2	.6	2.7	.6	.0	.0	.0	3.9	.4	3.0	.4	.0	.0	.0	3.8
3-4	.0	.9	2.2	.3	.0	.0	3.4	.0	1.8	4.3	.1	.0	.0	6.1
5-6	.0	.0	5.0	.9	.0	.0	5.9	.0	.3	2.1	.6	.0	.0	3.0
7	.0	.0	.6	.0	.0	.0	.6	.0	.0	1.5	.0	.3	.0	1.8
8-9	.0	.0	.6	.3	.0	.0	1.0	.0	.3	.6	.1	.0	.0	1.1
10-11	.0	.0	.0	1.3	.2	.0	1.5	.0	.0	.0	.6	.0	.0	.6
12	.0	.0	.0	.0	.2	.0	.2	.0	.0	.3	.0	.0	.0	.3
13-16	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.6	.0	.0	.6
17-19	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
20-22	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
23-25	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
26-32	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
33-40	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
41-48	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
49-60	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
61-70	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
71-86	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
87+	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
TOT PCT	.9	5.3	9.1	2.8	.5	.0	18.6	.7	5.9	9.2	2.0	.3	.0	18.2

HGT	1-3	4-10	11-21	22-33	34-47	48+	PCT	1-3	4-10	11-21	22-33	34-47	48+	PCT	TOTAL PCT
<1	.6	.0	.0	.0	.0	.0	.6	.1	.0	.0	.0	.0	.0	.1	
1-2	.6	2.3	.6	.0	.0	.0	3.5	.0	1.1	.0	.0	.0	.0	1.1	
3-4	.0	1.9	2.6	1.2	.0	.0	5.7	.0	.8	1.6	.0	.0	.0	2.4	
5-6	.0	.0	2.6	1.5	.0	.0	4.0	.0	.6	1.6	.0	.0	.0	2.3	
7	.0	.0	1.5	.6	.0	.0	2.1	.0	.0	.4	.0	.0	.0	.4	
8-9	.0	.0	.3	1.2	.0	.0	1.5	.0	.0	.3	.6	.0	.0	1.0	
10-11	.0	.0	.0	.3	.0	.0	.3	.0	.0	.0	.6	.3	.0	1.0	
12	.0	.0	.0	.2	.0	.0	.2	.0	.0	.0	.0	.1	.0	.1	
13-16	.0	.0	.0	.6	.0	.0	.6	.0	.0	.0	.0	.0	.0	.0	
17-19	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
20-22	.0	.0	.0	.0	.2	.0	.2	.0	.0	.0	.0	.1	.0	.1	
23-25	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
26-32	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
33-40	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
41-48	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
49-60	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
61-70	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
71-86	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
87+	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
TOT PCT	1.2	4.2	7.5	5.7	.2	.0	18.9	.1	2.3	4.0	1.4	.4	.0	8.3	99.7

WIND SPEED (KTS) VS SEA HEIGHT (FT)

HGT	0-3	4-10	11-21	22-33	34-47	48+	PCT	TOT OBS
<1	1.9	4.2	.0	.0	.0	.0	6.1	
1-2	1.9	14.8	3.2	.0	.0	.0	19.9	
3-4	.0	9.0	18.0	2.3	.0	.0	29.3	
5-6	.0	1.6	17.7	5.1	.0	.0	24.4	
7	.0	.0	7.4	1.0	.3	.0	8.7	
8-9	.0	.3	1.9	2.9	.0	.0	5.1	
10-11	.0	.0	.3	2.9	.0	.0	3.9	
12	.0	.0	.3	.3	.3	.0	1.0	
13-16	.0	.0	.0	1.3	.0	.0	1.3	
17-19	.0	.0	.0	.0	.0	.0	.0	
20-22	.0	.0	.0	.0	.3	.0	.3	
23-25	.0	.0	.0	.0	.0	.0	.0	
26-32	.0	.0	.0	.0	.0	.0	.0	
33-40	.0	.0	.0	.0	.0	.0	.0	
41-48	.0	.0	.0	.0	.0	.0	.0	
49-60	.0	.0	.0	.0	.0	.0	.0	
61-70	.0	.0	.0	.0	.0	.0	.0	
71-86	.0	.0	.0	.0	.0	.0	.0	
87+	.0	.0	.0	.0	.0	.0	.0	
TOT PCT	3.9	29.9	48.9	15.8	1.6	.0	100.0	311

PERIOD: (OVER-ALL) 1949-1971

TABLE 19

PERCENT FREQUENCY OF WAVE HEIGHT (FT) VS WAVE PERIOD (SECONDS)

PERIOD (SEC)	<1	1-2	3-4	5-6	7	8-9	10-11	12	13-16	17-19	20-22	23-25	26-32	33-40	41-48	49-60	61-70	71-86	87+	TOTAL	MEAN HGT
<6	.4	6.6	7.0	4.9	1.4	1.0	.2	.4	.2	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	108	4
6-7	.0	.8	4.7	9.9	4.1	3.5	2.3	.8	1.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	132	5
8-9	.0	.0	1.6	2.1	6.8	6.4	2.1	1.6	1.6	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	108	8
10-11	.0	.0	.0	1.9	2.7	3.3	3.3	1.2	1.2	.6	.2	.0	.0	.0	.0	.0	.0	.0	.0	70	9
12-13	.0	.0	.2	.2	.8	1.4	1.4	.4	.6	.2	.4	.4	.0	.0	.0	.0	.0	.0	.0	30	11
>13	.0	.0	.0	.2	.0	.0	.0	.8	1.0	.4	.0	.2	.0	.0	.0	.0	.0	.0	.0	13	14
INDET	.6	1.0	.6	.8	.2	.8	.4	.2	.0	.2	.2	.0	.0	.0	.0	.0	.0	.0	.0	25	6
TOTAL	5	41	69	97	78	80	47	27	28	7	4	3	0	0	0	0	0	0	0	486	7
PCT	1.0	8.4	14.2	20.0	16.0	16.5	9.7	5.6	5.8	1.4	.8	.6	.0	.0	.0	.0	.0	.0	.0	100.0	

## ANNUAL

PERIOD: (PRIMARY) 1890-1972  
(OVER-ALL) 1854-1972

AREA 0012 CAPE NELSON  
38.45 141.0E

TABLE 1

## PERCENT FREQUENCY OF WEATHER OCCURRENCE BY WIND DIRECTION

WIND DIR	PRECIPITATION TYPE							OTHER WEATHER PHENOMENA						
	RAIN	RAIN SHWR	DRZL	FRZG PCPN	SNOW	OTHER FRZN PCPN	HAIL	PCPN AT DB TIME	PCPN PAST HOUR	THOR LTNG	FGG WD PCPN	FGG WD PCPN PAST HR	SMOKE HAZE	SPRAY BLWG DUST SIG WEA
N	4.7	3.3	1.4	.0	.0	.0	.0	9.2	1.2	2.1	4.2	.0	1.3	.0
NE	4.4	2.7	1.4	.0	.0	.0	.0	8.5	.6	1.5	5.0	.0	.8	.0
E	3.5	2.4	1.7	.0	.0	.0	.0	7.7	1.0	.5	4.4	.0	.7	.0
SE	1.9	6.1	1.8	.0	.0	.0	.0	9.8	.9	.6	3.1	.0	.8	.0
S	2.9	7.6	2.0	.0	.0	.0	.2	12.6	2.3	.6	1.9	.0	.1	.0
SW	3.1	11.1	2.0	.0	.0	.0	.4	16.7	3.7	.6	1.6	.1	.2	.0
W	4.9	11.9	2.1	.0	.0	.0	.4	19.2	4.4	1.1	1.3	.0	.4	.0
NW	5.3	7.4	2.8	.0	.0	.0	.0	15.4	3.4	1.9	2.1	.1	1.3	.0
VAR	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
CALM	3.4	.4	2.1	.0	.0	.0	.0	4.2	2.1	.6	2.1	.0	4.3	.0
TOT PCT	3.8	7.3	1.8	.0	.0	.0	.2	13.0	2.5	1.0	2.7	*	.6	* 80.5
TOT OBS: 15242														

TABLE 2

## PERCENT FREQUENCY OF WEATHER OCCURRENCE BY HOUR

HOUR (GMT)	PRECIPITATION TYPE							OTHER WEATHER PHENOMENA						
	RAIN	RAIN SHWR	DRZL	FRZG PCPN	SNOW	OTHER FRZN PCPN	HAIL	PCPN AT DB TIME	PCPN PAST HOUR	THOR LTNG	FGG WD PCPN	FGG WD PCPN PAST HR	SMOKE HAZE	SPRAY BLWG DUST SIG WEA
00003	3.2	7.6	1.5	.0	.0	.0	.2	12.5	2.6	.2	3.1	*	.8	.0
06009	3.5	6.6	1.4	.0	.0	.0	.2	11.7	2.5	.3	3.0	*	.8	.0
12015	4.0	7.5	2.3	.0	.0	.0	.2	13.9	2.0	2.2	2.3	.0	.4	.0
18021	4.5	7.1	2.3	.0	.0	.0	.2	14.0	2.7	1.5	2.2	*	.5	* 79.5
TOT PCT	3.8	7.3	1.8	.0	.0	.0	.2	13.0	2.5	1.0	2.7	*	.6	* 80.5
TOT OBS: 15708														

TABLE 3

## PERCENTAGE FREQUENCY OF WIND DIRECTION BY SPEED AND BY HOUR

WIND DIR	WIND SPEED (KNOTS)							TOTAL DRS	PCT DRS	MEAN SPD	HOUR (GMT)							
	0-3	4-10	11-21	22-33	34-47	48+					00	03	06	09	12	15	18	21
N	.5	3.7	4.4	1.6	.3	*		10.6	13.1	12.6	12.4	8.9	8.4	8.1	10.1	11.0	14.2	
NE	.5	3.8	2.6	.5	.1	*		7.6	10.9	8.4	7.9	5.1	7.6	6.7	8.6	8.0	9.5	
E	.7	4.0	3.5	.6	.1	*		8.8	11.3	8.2	8.6	8.5	11.7	9.7	9.3	8.7	8.5	
SE	.5	4.5	4.3	.7	.1	*		10.1	11.8	9.0	10.2	11.1	11.5	11.7	10.2	8.9	9.0	
S	.8	5.4	5.1	1.4	.2	*		12.9	12.9	12.3	12.1	13.4	13.7	14.1	14.7	12.1	10.1	
SW	.6	5.6	7.2	3.4	.9	.1		17.6	15.8	17.5	16.3	18.6	18.1	18.0	17.1	18.1	16.5	
W	.6	4.8	7.8	4.3	1.1	.1		18.6	17.1	18.1	17.6	21.2	17.4	19.5	16.4	18.1	16.2	
NW	.4	3.5	5.3	2.6	.5	*		12.4	15.6	12.9	13.6	12.0	10.0	11.0	11.7	12.6	14.1	
VAR	.0	.0	.0	.0	.0	.0		.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
CALM	1.3							1.3	.0	.9	1.4	1.1	1.5	1.2	1.8	1.6	1.9	
TOT DRS							25636		14.2	4586	4313	4604	750	3835	2535	4456	557	
TOT PCT	5.9	35.3	40.2	15.2	3.2	.3		100.0		100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	

TABLE 3A

WIND DIR	WIND SPEED (KNOTS)							TOTAL DRS	PCT DRS	MEAN SPD	HOUR (GMT)				
	0-6	7-16	17-27	28-40	41+						00	06	12	18	21
N	1.9	4.8	2.9	.8	.1			10.6	13.1	12.5	8.8	8.9	11.3		
NE	2.0	4.1	1.2	.2	*			7.6	10.9	8.2	5.5	7.4	9.0		
E	2.2	4.8	1.6	.2	*			8.8	11.3	8.4	8.9	9.5	8.7		
SE	2.3	5.4	2.7	.3	*			10.1	11.8	9.6	11.1	11.1	8.9		
S	2.8	6.5	3.0	.6	.1			12.9	12.9	12.2	13.4	14.3	11.9		
SW	2.5	7.7	5.2	1.9	.3			17.6	15.8	16.9	18.5	17.6	18.0		
W	2.1	7.4	6.1	2.7	.4			18.6	17.1	17.9	20.7	18.3	17.9		
NW	1.6	5.1	4.2	1.3	.2			12.4	15.6	13.2	11.8	11.3	12.8		
VAR	.0	.0	.0	.0	.0			.0	.0	.0	.0	.0	.0		
CALM	1.3							1.3	.0	1.1	1.2	1.4	1.7		
TOT DRS						25636			14.2	8899	5354	6370	5013		
TOT PCT	18.7	45.6	26.4	7.9	1.1			100.0		100.0	100.0	100.0	100.0		



PERIOD: (PRIMARY) 1890-1972  
(OVER-ALL) 1854-1972

# ANNUAL

AREA 0012 CAPE NELSON  
38.45 141.0E

TABLE 4

## PERCENTAGE FREQUENCY OF WIND SPEED BY HOUR (GMT)

HOUR	CALM	1-3	4-10	WIND SPEED (KNOTS)			48+	MEAN	PCT FREQ	TOTAL DBS
				11-21	22-33	34-47				
07003	1.1	4.4	35.0	40.1	15.8	3.2	.4	14.4	100.0	8899
08009	1.2	4.1	35.3	40.7	15.3	3.1	.3	14.3	100.0	5354
12015	1.4	5.0	35.3	40.1	14.7	3.2	.3	14.1	100.0	6370
18021	1.7	4.8	35.7	40.0	14.4	3.1	.3	14.0	100.0	5013
TOT								14.2		25636
PCT	1.3	4.6	35.3	40.2	15.2	3.2	.3		100.0	

TABLE 5

## PCT FREQ OF TOTAL CLOUD AMOUNT (EIGHTHS) BY WIND DIRECTION

WIND DIR	0-2	3-4	5-7	8 & DBSCD	TOTAL DBS	MEAN CLOUD COVER
N	2.7	1.4	3.3	2.7		4.7
NE	2.2	.9	1.9	1.5		4.3
E	3.6	1.3	2.3	1.4		4.0
SE	2.8	1.6	3.2	2.4		5.0
S	1.9	2.3	5.3	3.5		5.5
SW	2.3	4.2	8.2	3.8		5.3
W	2.6	4.2	8.6	4.7		5.4
NW	2.7	1.9	4.4	3.4		5.1
VAR	.0	.0	.0	.0		.0
CALM	.4	.2	.2	.2		3.6
TOT DBS					7222	5.0
TOT PCT	21.1	17.9	37.4	23.6	100.0	

TABLE 6

## PERCENTAGE FREQUENCY OF CEILING HEIGHTS (FT, NH >4/8) AND OCCURRENCE OF NH <5/8 BY WIND DIRECTION

000	150	300	600	1000	2000	3500	5000	6500	8000+	NH <5/8 ANY HGT	TOTAL DBS
149	299	599	999	1999	3499	4999	6499	7999			
*	*	.2	.7	1.6	.6	.4	.2	.1	.2	6.1	
*	*	.1	.3	.7	.6	.3	.1	*	.1	4.2	
*	.0	.1	.4	.8	.6	.3	.1	.1	*	6.1	
*	*	.2	.6	1.6	1.3	.5	.1	.1	*	5.5	
*	*	.1	1.3	3.0	1.6	.7	.3	.1	.1	5.6	
.1	*	.3	1.5	4.4	2.1	1.0	.3	.1	.1	8.7	
.1	*	.3	2.2	4.6	1.9	1.2	.2	.1	.1	9.3	
*	*	.2	1.1	2.4	1.0	.5	.2	.1	.2	6.6	
.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
.0	.0	*	.1	.1	.1	*	.0	.0	*	.6	
.2	.2	1.4	8.1	19.2	9.9	5.0	1.6	.7	.9	52.7	7227 100.0

TABLE 7

## CUMULATIVE PCT FREQ OF SIMULTANEOUS OCCURRENCE OF CEILING HEIGHT (NH >4/8) AND VSBY (NM)

CEILING (FEET)	>10	>5	>2	>1	>1/2	>1/4	>50YD	>0
* OR >A500	1.3	1.5	1.6	1.6	1.6	1.6	1.6	1.6
* OR >A000	2.6	3.0	3.2	3.2	3.2	3.2	3.2	3.2
* OR >A500	6.9	8.0	8.2	8.2	8.2	8.2	8.2	8.2
* OR >A000	15.2	17.5	18.0	18.0	18.0	18.0	18.0	18.0
* OR >A000	30.6	36.1	37.1	37.1	37.1	37.2	37.2	37.2
* OR >A00	36.1	43.8	45.1	45.2	45.3	45.3	45.3	45.3
* OR >A00	36.8	45.0	46.5	46.6	46.7	46.7	46.7	46.7
* OR >A00	36.9	45.1	46.7	46.8	46.9	46.9	46.9	46.9
* OR >0	37.0	45.2	46.8	47.0	47.1	47.1	47.1	47.1

TOTAL NUMBER OF DBS: 7363

PCT FREQ NH <5/8: 52.9

TABLE 7A

## PERCENTAGE FREQ OF LOW CLOUDS (EIGHTHS)

0	1	2	3	4	5	6	7	8 DBSCD	TOTAL DBS
10.8	10.6	10.7	10.5	9.3	8.2	10.0	11.4	18.5	.1 8318

PERIOD: (PRIMARY) 1890-1972  
(OVER-ALL) 1854-1972

ANNUAL

AREA 0012 CAPE NELSON  
38.45 141.0E

TABLE 8

PERCENT FREQ OF WIND DIRECTION VS OCCURRENCE OR NON-OCCURRENCE OF  
PRECIPITATION WITH VARYING VALUES OF VISIBILITY

VSBY (NM)		N	NE	E	SE	S	SW	W	NW	VAR	CALM	PCT	TOTAL OBS
<1/2	PCP	*	*	.0	.0	.0	.0	*	*	.0	.0	*	
	NO PCP	.1	*	.1	.1	*	*	.1	*	.0	.0	.4	
	TOT %	.1	*	.1	.1	*	*	.1	*	.0	.0	.4	
1/2<1	PCP	*	*	*	*	.1	.1	.1	.1	.0	.0	.4	
	NO PCP	.2	.3	.4	.3	.2	.2	.2	.2	.0	*	2.1	
	TOT %	.3	.3	.4	.3	.3	.3	.3	.3	.0	*	2.5	
1<2	PCP	*	*	*	*	*	*	*	.1	.0	.0	.1	
	NO PCP	.1	.1	*	.1	*	*	*	.1	.0	*	.4	
	TOT %	.1	.1	*	.1	*	*	.1	.1	.0	*	.5	
2<5	PCP	.1	*	*	*	.1	.1	.2	.1	.0	.0	.6	
	NO PCP	*	*	*	.1	.1	.1	.2	.2	.0	.0	.7	
	TOT %	.1	.1	.1	.1	.1	.2	.4	.3	.0	.0	1.3	
5<10	PCP	.7	.4	.4	.5	1.0	2.0	2.6	1.4	.0	*	9.0	
	NO PCP	3.8	2.9	3.3	3.6	4.7	5.7	6.1	4.0	.0	.1	34.2	
	TOT %	4.5	3.3	3.7	4.0	5.6	7.7	8.7	5.4	.0	.1	43.2	
10+	PCP	.3	.1	.1	.1	.4	.7	.7	.4	.0	*	2.8	
	NO PCP	5.3	3.6	4.5	5.2	6.7	9.0	8.9	5.8	.0	.5	49.3	
	TOT %	5.5	3.7	4.6	5.3	7.1	9.6	9.6	6.1	.0	.5	52.1	
TOT OBS													15239
TOT PCT													10.5 7.5 8.9 9.9 13.2 16.0 19.1 12.2 .0 .7 100.0

TABLE 9

PERCENT FREQ OF WIND DIRECTION VS WIND SPEED  
WITH VARYING VALUES OF VISIBILITY

VSBY (NM)	SPO KTS	N	NE	E	SE	S	SW	W	NW	VAR	CALM	PCT	TOTAL OBS
<1/2	0-3	*	*	*	*	.0	.0	.0	.0	.0	.0	*	
	4-10	*	*	*	*	*	*	*	*	.0	.0	.2	
	11-21	*	*	*	*	*	*	*	*	.0	.0	.1	
	22+	*	.0	.0	*	*	*	*	*	.0	.0	*	
	TOT %	.1	*	*	.1	*	*	.1	*	.0	.0	.4	
1/2<1	0-3	*	*	*	*	*	*	*	*	.0	*	.2	
	4-10	.1	.2	.2	.1	.1	.1	*	*	.0	*	.8	
	11-21	.1	.1	.1	.1	.1	.1	.1	.1	.0	.0	.8	
	22+	*	*	.1	*	.1	.1	.1	.1	.0	*	.5	
	TOT %	.2	.3	.4	.3	.3	.3	.3	.2	.0	*	2.2	
1<2	0-3	*	*	.0	.0	.0	*	.0	.0	.0	*	*	
	4-10	*	*	*	*	*	*	*	*	.0	.0	.2	
	11-21	*	*	*	.1	*	*	*	*	.0	.0	.2	
	22+	*	.0	*	*	*	*	*	*	.0	.0	.1	
	TOT %	.1	.1	.1	.1	*	.1	.1	.1	.0	*	.6	
2<5	0-3	*	*	*	.0	.0	*	*	*	.0	.0	*	
	4-10	*	*	.1	*	.1	.1	.1	.1	.0	.0	.4	
	11-21	*	*	.1	.1	.1	.1	.1	.1	.0	.0	.6	
	22+	*	*	*	*	*	.1	.2	.2	.0	.0	.7	
	TOT %	.1	.1	.1	.2	.2	.3	.4	.3	.0	.0	1.7	
5<10	0-3	.2	.2	.3	.2	.3	.2	.2	.1	.0	.2	1.9	
	4-10	1.1	1.3	1.4	1.5	1.9	1.9	1.7	1.3	.0		12.2	
	11-21	1.9	1.1	1.5	1.8	2.1	2.8	3.3	2.1	.0		16.6	
	22+	.9	.3	.2	.3	.8	2.1	2.8	1.4	.0		8.6	
	TOT %	4.1	3.0	3.4	3.8	5.1	7.0	8.0	5.0	.0	.2	39.5	
10+	0-3	.2	.2	.2	.2	.3	.3	.3	.2	.0	.7	2.6	
	4-10	2.4	2.2	2.4	2.8	3.4	3.6	2.9	2.0	.0		21.8	
	11-21	2.4	1.4	1.9	2.5	3.2	4.6	4.6	3.0	.0		23.6	
	22+	.8	.2	.3	.4	.8	1.9	2.2	1.2	.0		7.7	
	TOT %	5.8	3.9	4.8	5.9	7.8	10.4	10.0	6.4	.0	.7	55.7	
TOT OBS													17425
TOT PCT													10.3 7.4 8.8 10.3 13.4 18.1 18.8 12.0 .0 .9 100.0

PERIOD: (PRIMARY) 1890-1972  
(OVER-ALL) 1854-1972

# ANNUAL

AREA 0012 CAPE NELSON  
38.45 141.06

TABLE 10

PERCENT FREQUENCY OF CEILING HEIGHTS (FEET, NH >4/8) AND  
OCCURRENCE OF NH <5/8 BY HOUR

HOUR (GMT)	000 149	150 299	300 599	600 999	1000 1999	2000 3499	3500 4999	5000 6499	6500 7999	8000+	TOTAL NH <5/8 ANY HGT	TOTAL OBS
00003	.2	.2	1.4	8.2	20.5	9.9	5.1	1.7	.7	1.1	49.0	51.0
06009	.2	.3	1.1	7.7	17.5	9.9	4.5	1.4	.7	.9	44.3	56.7
12015	.2	.1	1.5	7.3	16.6	7.1	4.4	1.6	.4	.5	39.6	60.4
18021	.4	.1	1.3	7.3	17.5	9.0	5.1	1.4	.7	.9	44.3	55.7
TOT												7777
PCT	.2	.2	1.3	7.7	18.1	9.3	4.8	1.5	.6	.9	44.6	56.4

TABLE 11

PERCENT FREQUENCY VSBY (NM) BY HOUR

HOUR (GMT)	<1/2	1/2-1	1-2	2-5	5-10	10+	TOTAL OBS
00003	.5	2.4	.6	1.7	40.1	54.6	5424
06009	.2	2.5	.8	1.8	36.2	58.5	4181
12015	.4	2.1	.5	1.4	44.1	51.6	4500
18021	.3	2.1	.5	1.8	38.8	56.6	3786
TOT							17891
PCT	.4	2.3	.6	1.7	39.9	55.2	100.0

TABLE 12

CUMULATIVE PCT FREQ OF RANGES OF VSBY (NM) AND/OR  
CEILING HGT (FEET, NH >4/8), BY HOUR

HOUR (GMT)	<150 <50YD	<600 <1	<1000 <5	1000+ AND5+	NH <5/8 AND 5+	TOTAL OBS
00003	.2	2.1	12.3	39.9	47.8	2167
06009	.3	1.8	11.3	35.7	53.0	1967
12015	.2	2.0	10.6	31.5	57.8	1611
18021	.4	1.9	10.6	36.2	53.2	1618
TOT						7363
PCT	.2	2.0	11.3	36.1	52.5	100.0

TABLE 13

PERCENT FREQUENCY OF RELATIVE HUMIDITY BY TEMP

TEMP F	0-29	30-39	40-49	50-59	60-69	70-79	80-89	90-100	TOTAL OBS	PCT FREQ
80/84	.0	*	*	.0	.0	.0	.0	.0	*	*
75/79	.0	*	.1	*	*	.1	.0	.0	.2	.2
70/74	.0	.0	*	.2	.2	.2	.1	.1	.8	.8
65/69	.0	.0	.1	.3	.6	1.6	1.7	.8	5.1	5.1
60/64	.0	.0	.1	.7	3.9	7.8	8.6	3.6	24.7	24.7
55/59	.0	.0	.1	1.4	7.2	14.8	14.4	5.1	43.0	43.0
50/54	.0	.0	.1	.8	5.5	6.8	8.4	2.8	24.3	24.3
45/49	.0	.0	.0	.1	.3	.8	.5	.3	1.9	1.9
40/44	.0	.0	.0	.0	.0	.0	*	.0	*	*
TOTAL									9494	100.0
PCT	.0	*	.4	3.5	17.6	32.0	33.7	12.7		

TABLE 14

PERCENT FREQUENCY OF WIND DIRECTION BY TEMP

N	NE	E	SE	S	SW	W	NW	VAR	CALM
*	.0	*	.0	.0	.0	.0	*	.0	.0
.1	*	*	.0	.0	.0	*	*	.0	*
.2	.1	.2	*	*	.1	*	.1	.0	*
.7	.8	1.1	.6	.2	.3	.6	.6	.0	.1
2.2	1.8	3.0	3.3	2.8	3.5	4.7	2.9	.0	.2
4.4	2.3	3.1	4.1	5.8	8.1	9.1	5.7	.0	.3
2.3	1.3	1.1	1.4	4.0	6.2	5.0	2.8	.0	.2
.2	.1	*	.1	.5	.6	.2	.1	.0	.0
.0	.0	.0	.0	.0	*	.0	.0	.0	.0
10.1	6.5	8.6	9.6	13.4	18.9	19.7	12.3	.0	.9

TABLE 15

MEANS, EXTREMES AND PERCENTILES OF TEMP (DEG F) BY HOUR

HOUR (GMT)	MAX	99%	95%	50%	5%	1%	MIN	MEAN	TOTAL OBS
00003	83	68	54	58	53	51	43	58.2	8693
06009	83	69	55	58	53	51	46	58.7	5374
12015	82	65	52	57	52	50	42	57.0	6391
18021	74	65	52	56	52	50	44	55.6	5037
TOT	83	67	64	57	52	50	42	57.7	25445

TABLE 16

PERCENT FREQUENCY OF RELATIVE HUMIDITY BY HOUR

HOUR (GMT)	0-29	30-59	60-69	70-79	80-89	90-100	MEAN	TOTAL OBS
00003	.0	4.7	18.2	34.0	30.8	12.2	77	2852
06009	.0	5.8	21.9	33.7	28.8	9.7	76	2407
12015	.0	2.6	15.4	30.1	38.5	13.4	79	2306
18021	.0	2.4	14.2	29.7	37.2	16.5	80	2118
TOT	0	386	1711	3101	3243	1242	78	9683

## ANNUAL

PERIOD: (PRIMARY) 1890-1972  
(OVER-ALL) 1854-1972AREA 0012 CAPE NELSON  
38.45 141.06

TABLE 17

PCT FREQ OF AIR TEMPERATURE (DEG F) AND THE OCCURRENCE OF FOG (WITHOUT PRECIPITATION)  
VS AIR-SEA TEMPERATURE DIFFERENCE (DEG F)

AIR-SEA TMP DIF	41	45	49	53	57	61	65	69	73	77	81	TOT	W FOG	WD FOG
44	48	52	56	60	64	68	72	76	80	84				
20/22	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	2	.0	.0
17/19	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	4	.0	.0
14/16	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	21	.0	.1
11/13	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	34	.0	.2
9/10	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	36	.0	.2
7/8	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	150	.1	1.0
6	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	115	.0	.8
5	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	223	.1	1.5
4	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	364	.2	2.5
3	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	485	.2	3.4
2	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	799	.4	5.4
1	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	1177	.3	8.2
0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	1796	.4	12.7
-1	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	1847	.4	13.1
-2	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	1920	.3	13.8
-3	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	1544	.2	11.2
-4	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	1242	.1	9.2
-5	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	838	.0	6.3
-6	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	454	.0	3.4
-7/-8	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	369	.0	2.8
-9/-10	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	118	.0	.9
-11/-13	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	36	.0	.3
-14/-16	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	7	.0	.1
TOTAL												13581		
PCT	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	100.0	2.8	97.2

PERIOD: (OVER-ALL) 1963-1972

TABLE 18

PCT FREQ OF WIND SPEED (KTS) AND DIRECTION VERSUS SEA HEIGHTS (FT)

HGT	1-3	4-10	11-21	22-33	34-47	48+	PCT	1-3	4-10	11-21	22-33	34-47	48+	PCT
<1	.2	.4	.0	.0	.0	.0	.6	.1	.5	.0	.0	.0	.0	.6
1-2	.1	2.0	.5	.0	.0	.0	2.5	.1	1.5	.4	.0	.0	.0	2.0
3-4	.0	1.0	1.8	.1	.0	.0	2.9	.0	.8	1.1	.0	.0	.0	1.9
5-6	.0	.2	1.2	.6	.0	.0	2.0	.0	.1	.4	.1	.0	.0	.7
7	.0	.0	.5	.5	.0	.0	1.0	.0	.0	.1	.2	.0	.0	.4
8-9	.0	.0	.1	.2	.0	.0	.3	.0	.0	.1	.1	.0	.0	.1
10-11	.0	.0	.0	.1	.0	.0	.2	.0	.0	.0	.0	.0	.0	.0
12	.0	.0	.0	.1	.0	.0	.1	.0	.0	.0	.0	.0	.0	.0
13-16	.0	.0	.0	.1	.0	.0	.1	.0	.0	.0	.0	.0	.0	.0
17-19	.0	.0	.0	.1	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
20-22	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
23-25	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
26-32	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
33-40	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
41-48	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
49-60	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
61-70	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
71-86	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
87+	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
TOT PCT	.3	3.6	4.1	1.7	.1	.0	9.9	.2	2.9	2.2	.5	.0	.0	5.7

HGT	1-3	4-10	11-21	22-33	34-47	48+	PCT	1-3	4-10	11-21	22-33	34-47	48+	PCT
<1	.1	.5	.0	.0	.0	.0	.7	.1	.3	.0	.0	.0	.0	.4
1-2	.2	1.6	.4	.0	.0	.0	2.2	.0	1.7	.9	.0	.0	.0	2.5
3-4	.0	1.2	1.3	.1	.0	.0	2.7	.0	1.0	1.9	.1	.0	.0	3.0
5-6	.0	.2	1.1	.2	.0	.0	1.5	.0	.3	1.7	.4	.0	.0	2.3
7	.0	.0	.5	.1	.0	.0	.6	.0	.0	.6	.2	.0	.0	.8
8-9	.0	.0	.0	.0	.0	.0	.0	.0	.0	.1	.1	.0	.0	.2
10-11	.0	.0	.0	.1	.0	.0	.1	.0	.0	.0	.0	.0	.0	.0
12	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
13-16	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
17-19	.0	.0	.0	.1	.0	.0	.1	.0	.0	.0	.0	.1	.0	.1
20-22	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
23-25	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
26-32	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
33-40	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
41-48	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
49-60	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
61-70	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
71-86	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
87+	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
TOT PCT	.4	3.5	3.4	.6	.0	.0	7.8	.1	3.4	5.1	.7	.1	.0	9.4

PERIOD: (OVER-ALL) 1963-1972

ANNUAL

AREA 0012 CAPE NELSON  
38.45 141.0E

TABLE 18 (CONT)

PCT FREQ OF WIND SPEED (KTS) AND DIRECTION VERSUS SEA HEIGHTS (FT)

HGT	1-3	4-10	11-21	22-33	34-47	48+	PCT	1-3	4-10	11-21	22-33	34-47	48+	PCT
<1	.3	.6	.0	.0	.0	.0	.9	.1	.7	.0	.0	.0	.0	.8
1-2	.1	2.6	.9	.0	.0	.0	3.6	.2	2.6	.7	.0	.0	.0	3.4
3-4	.0	1.7	2.1	.1	.0	.0	3.9	.0	1.8	3.4	.3	.0	.0	5.5
5-6	.0	.3	2.1	.4	.0	.0	2.7	.0	.3	2.9	.7	.0	.0	4.1
7	.0	.0	.6	.3	.1	.0	1.0	.0	.0	1.1	.8	.2	.0	2.1
8-9	.0	.0	.2	.2	.0	.0	.4	.0	.0	.4	.6	.1	.0	1.2
10-11	.0	.0	.0	.4	.0	.0	.5	.0	.0	.2	.3	.2	.0	.6
12	.0	.0	.0	.1	.0	.0	.1	.0	.0	.0	.1	.1	.0	.2
13-16	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.2	.1	.0	.4
17-19	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
20-22	.0	.0	.0	.0	.1	.0	.1	.0	.0	.0	.0	.1	.0	.1
23-25	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
26-32	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
33-40	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
41-48	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
49-60	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
61-70	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
71-86	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
87+	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
TOT PCT	.4	5.2	5.9	1.4	.2	.0	13.1	.3	5.5	8.7	3.1	.7	.0	18.3

HGT	1-3	4-10	11-21	22-33	34-47	48+	PCT	1-3	4-10	11-21	22-33	34-47	48+	PCT	TOTAL PCT
<1	.2	.5	.1	.0	.0	.0	.7	.1	.3	.0	.0	.0	.0	.5	
1-2	.1	2.2	.9	.0	.0	.0	3.2	.0	1.9	.5	.0	.0	.0	2.4	
3-4	.1	1.9	3.5	.3	.0	.0	5.7	.0	1.2	2.0	.2	.0	.0	3.4	
5-6	.0	.4	3.9	1.0	.1	.0	5.4	.0	.3	2.2	.7	.0	.0	3.1	
7	.0	.0	1.4	1.2	.2	.0	2.9	.0	.0	.9	.8	.1	.0	1.8	
8-9	.0	.0	.4	1.9	.3	.0	1.6	.0	.0	.2	.5	.1	.0	.9	
10-11	.0	.0	.1	.5	.2	.0	.8	.0	.0	.0	.4	.1	.0	.5	
12	.0	.0	.0	.3	.1	.0	.4	.0	.0	.0	.1	.0	.0	.2	
13-16	.0	.0	.0	.3	.1	.0	.5	.0	.0	.0	.2	.0	.0	.2	
17-19	.0	.0	.0	.1	.0	.0	.2	.0	.0	.0	.0	.0	.0	.1	
20-22	.0	.0	.0	.0	.1	.0	.1	.0	.0	.0	.0	.0	.0	.1	
23-25	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.1	.0	.1	
26-32	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
33-40	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
41-48	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
49-60	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
61-70	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
71-86	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
87+	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
TOT PCT	.4	5.0	10.4	4.9	1.0	.0	21.6	.2	3.7	5.9	2.9	.4	.0	13.2	98.9

WIND SPEED (KTS) VS SEA HEIGHT (FT)

HGT	0-3	4-10	11-21	22-33	34-47	48+	PCT	TOT DBS
<1	2.9	3.9	.2	.0	.0	.0	6.9	
1-2	1.0	16.0	5.0	.0	.0	.0	21.9	
3-4	.2	10.5	16.9	1.2	.0	.0	28.8	
5-6	.1	2.0	15.3	4.0	.1	.0	21.5	
7	.0	.1	5.7	4.1	.5	.0	10.4	
8-9	.0	.1	2.6	.4	.0	.0	4.6	
10-11	.0	.0	1.4	1.7	.5	.0	2.7	
12	.0	.0	.1	.7	.2	.0	1.0	
13-16	.0	.0	.1	.8	.3	.0	1.2	
17-19	.0	.0	.0	.3	.1	.0	.4	
20-22	.0	.0	.0	.1	.2	.0	.3	
23-25	.0	.0	.0	.0	.1	.0	.1	
26-32	.0	.0	.0	.0	.0	.0	.1	
33-40	.0	.0	.0	.0	.0	.0	.0	
41-48	.0	.0	.0	.0	.0	.0	.0	
49-60	.0	.0	.0	.0	.0	.0	.0	
61-70	.0	.0	.0	.0	.0	.0	.0	
71-86	.0	.0	.0	.0	.0	.0	.0	
87+	.0	.0	.0	.0	.0	.0	.0	
TOT PCT	4.2	32.5	45.2	15.7	2.4	.0	100.0	4610

PERIOD: (OVER-ALL) 1949-1976

TABLE 19

PERCENT FREQUENCY OF WAVE HEIGHT (FT) VS WAVE PERIOD (SECONDS)

PERIOD (SEC)	<1	1-2	3-4	5-6	7	8-9	10-11	12	13-16	17-19	20-22	23-25	26-32	33-40	41-48	49-60	61-70	71-86	87+	TOTAL	MEAN HGT
<6	.6	4.6	7.5	4.4	1.8	.7	.6	.2	.2	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	1359	4
6-7	.0	.4	3.9	8.2	5.8	3.0	1.8	.8	1.1	.3	.2	.1	.0	.0	.0	.0	.0	.0	.0	1651	7
8-9	.0	.2	1.4	3.9	6.3	4.9	2.9	1.4	1.5	.6	.3	.0	.2	.0	.0	.0	.0	.0	.0	1530	8
10-11	.0	.2	.5	1.8	2.6	3.0	2.5	1.4	1.7	.4	.3	.2	.1	.0	.0	.0	.0	.0	.0	943	9
12-13	.0	.0	.3	.4	.8	1.1	1.2	.8	.9	.3	.3	.1	.0	.0	.0	.0	.0	.0	.0	407	11
13-14	.0	.0	.0	.2	.3	.4	.4	.3	.7	.3	.2	.1	.1	.0	.0	.0	.0	.0	.0	204	13
14-15	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	405	14
TOTAL	.6	1.0	1.2	1.2	.7	.5	.5	.2	.2	.2	.1	.0	.0	.0	.0	.0	.0	.0	.0	8494	7
PCT	1.2	6.5	14.8	20.1	18.3	13.5	9.9	5.1	6.2	2.0	1.4	.5	.5	.1	.0	.0	.0	.0	.0	100.0	



PERIOD: (PRIMARY) 1890-1972  
(OVER-ALL) 1854-1972

AREA 0012 CAPE NELSON  
38.45 141.0E

TABLE 20

PERCENT FREQUENCY OF OCCURRENCE OF SEA TEMP (DEG F) BY MONTH														
SFA TMP DEG F	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC	ANN	PCT
96+	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	0	.0
95/96	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	0	.0
93/94	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	0	.0
91/92	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	0	.0
89/90	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	0	.0
87/88	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	0	.0
85/86	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	0	.0
83/84	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	0	.0
81/82	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	0	.0
79/80	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	0	.0
77/78	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	0	.0
75/76	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	0	.0
73/74	.1	.2	.2	.0	.0	.0	.0	.0	.0	.0	.0	.0	6	.1
71/72	.3	.3	.1	.0	.0	.0	.0	.0	.0	.0	.0	.1	16	.1
69/70	.6	.7	.3	.0	.0	.0	.0	.0	.0	.0	.0	.1	35	.2
67/68	1.6	2.9	1.8	.5	.0	.0	.2	.2	.0	.0	.1	.6	159	.7
65/66	6.0	13.1	7.8	1.8	.7	.0	.2	.1	.0	.1	.3	1.1	637	2.7
63/64	26.2	34.2	28.5	13.3	4.1	1.3	.1	.2	.2	.3	1.0	6.9	2366	10.2
61/62	33.7	31.0	34.1	33.9	20.4	8.4	1.8	.6	.7	1.2	5.9	22.6	3870	16.7
59/60	23.0	12.8	18.6	34.7	39.5	23.8	12.7	3.1	2.1	7.2	19.8	36.9	4530	19.5
57/58	7.1	3.6	7.1	11.8	24.1	35.7	34.0	23.3	18.0	28.4	37.3	23.4	4802	20.7
55/56	1.3	1.0	1.3	3.1	9.3	22.8	33.0	47.7	52.7	45.3	28.7	7.0	4778	20.6
53/54	.3	.3	.1	.4	1.2	5.7	11.7	17.5	21.7	14.5	5.3	.9	1487	6.4
51/52	.0	.0	.0	.2	.5	1.9	3.9	6.2	3.7	2.1	1.4	.5	374	1.6
49/50	.0	.0	.0	.3	.2	.2	2.2	1.1	.7	.7	.1	.1	100	.4
47/48	.0	.0	.0	.0	.1	.1	.2	.1	.1	.1	.0	.0	10	.1
45/46	.0	.0	.0	.0	.0	.1	.1	.0	.0	.0	.0	.0	2	.0
43/44	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	0	.0
41/42	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	0	.0
39/40	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	0	.0
37/38	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	0	.0
35/36	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	0	.0
33/34	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	0	.0
31/32	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	0	.0
29/30	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	0	.0
27/28	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	0	.0
<27	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	0	.0
TOTAL	1986	2003	2221	1932	1886	1643	1618	1812	1869	2127	2120	1955	23172	100.0
MEAN	61.5	62.4	61.7	60.4	59.0	57.5	56.2	55.4	55.3	56.0	57.3	59.4	58.5	

TABLE 21

PRESSURE (MB)

AVERAGE BY HOUR (GMT)

MO	0000	0300	0600	0900	1200	1500	1800	2100	MEAN	TOTAL DBS
JAN	1015	1014	1014	1012	1015	1012	1013	1016	1014	1068
FEB	1016	1015	1015	1011	1015	1015	1014	1011	1015	1063
MAR	1018	1017	1016	1018	1017	1017	1017	1017	1017	1289
APR	1019	1019	1018	1018	1019	1018	1018	1017	1018	1103
MAY	1018	1018	1017	1018	1018	1018	1017	1016	1017	1199
JUN	1020	1019	1019	1022	1020	1019	1019	1022	1020	918
JUL	1017	1017	1016	1019	1017	1018	1015	1021	1016	937
AUG	1017	1016	1016	1018	1016	1014	1015	1013	1016	1018
SEP	1015	1013	1014	1011	1016	1014	1014	1014	1015	1055
OCT	1016	1013	1015	1014	1016	1014	1014	1010	1015	1094
NOV	1012	1014	1013	1017	1013	1014	1013	1010	1013	1044
DEC	1014	1013	1013	1016	1014	1015	1011	1012	1013	937
ANN	1016	1016	1016	1018	1016	1016	1015	1015	1016	12725
DBS	2844	1348	2685	750	2297	647	2427	227		

PERCENTILES

MO	MIN	1%	5%	25%	50%	75%	95%	99%	MAX
JAN	992	995	1002	1010	1018	1018	1023	1026	1028
FEB	995	998	1005	1012	1015	1018	1024	1027	1030
MAR	992	998	1005	1013	1018	1022	1027	1031	1035
APR	986	997	1004	1013	1019	1024	1029	1032	1036
MAY	987	993	1000	1012	1018	1024	1030	1034	1037
JUN	990	998	1001	1014	1021	1026	1032	1037	1042
JUL	980	984	998	1010	1018	1024	1031	1035	1038
AUG	988	993	997	1009	1017	1023	1031	1034	1039
SEP	985	989	999	1009	1015	1021	1028	1032	1036
OCT	984	988	999	1009	1016	1021	1026	1030	1033
NOV	984	990	998	1007	1014	1019	1024	1026	1028
DEC	986	995	1001	1009	1014	1018	1024	1029	1031

PERIOD: (PRIMARY) 1911-1971  
(COVER-ALL) 1857-1971

# JANUARY

AREA 0013 SPENCER GULF  
35.25 136.9E

TABLE 1

## PERCENT FREQUENCY OF WEATHER OCCURRENCE BY WIND DIRECTION

PRECIPITATION TYPE										OTHER WEATHER PHENOMENA					
WIND DIR	RAIN	RAIN SHWR	DRZL	FRZG PCPN	SNOW	OTHER FRZN PCPN	HAIL	PCPN AT DB TIME	PCPN PAST HOUR	THOR LTNG	FOG WD PCPN	FOG WD PCPN PAST HR	SMOKE HAZE	SPRAY BLWG SNOW	NO SIG WEA
N	2.8	.0	5.6	.0	.0	.0	.0	8.3	.0	2.8	.0	.0	8.3	.0	80.6
NE	1.4	.0	.0	.0	.0	.0	.0	1.4	.0	1.4	2.7	.0	4.1	.0	90.4
E	3.1	.6	.0	.0	.0	.0	.0	3.7	2.4	2.4	2.4	.0	1.8	.0	87.8
SE	.3	2.2	.6	.0	.0	.0	.0	3.1	.2	3.7	.6	.0	2.2	.0	90.5
S	.6	3.0	.0	.0	.0	.0	.0	3.7	2.1	.0	4.6	.0	1.2	.0	88.4
SW	3.0	5.6	1.5	.0	.0	.0	.0	10.0	.2	.0	1.1	.0	.9	.0	87.8
W	11.6	4.7	2.1	.0	.0	.0	1.1	19.5	.0	.0	4.2	.0	1.6	.0	74.7
NW	13.3	11.1	.0	.0	.0	.0	4.4	28.9	.0	.0	.0	.0	.0	.0	71.1
VAR	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
CALM	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	100.0
TOT PCT	2.4	3.0	.8	.0	.0	.0	.2	6.4	.9	1.4	2.3	.0	1.8	.0	87.4
TOT OBS:	659														

TABLE 2

## PERCENT FREQUENCY OF WEATHER OCCURRENCE BY HOUR

HOUR (GMT)	PRECIPITATION TYPE							OTHER WEATHER PHENOMENA							
	RAIN	RAIN SHWR	DRZL	FRZG PCPN	SNOW	OTHER FRZN PCPN	HAIL	PCPN AT DB TIME	PCPN PAST HOUR	THOR LTNG	FOG WD PCPN	FOG WD PCPN PAST HR	SMOKE HAZE	SPRAY BLWG BLWG SNOW	NO SIG WEA
00003	3.0	2.4	.0	.0	.0	.0	.0	5.5	1.2	.6	3.6	.0	3.6	.0	85.5
06009	1.6	2.4	.0	.0	.0	.0	.0	4.0	.8	.0	3.2	.0	3.2	.0	88.8
12015	2.9	4.1	.4	.0	.0	.0	.4	7.8	.4	.8	2.0	.0	1.6	.0	87.7
18021	1.4	2.1	2.7	.0	.0	.0	.0	6.2	1.4	4.1	.0	.0	.7	.0	87.7
TOT PCT TOT OBS:	2.4 580	2.9	.7	.0	.0	.0	.1	6.2	.9	1.3	2.2	.0	2.2	.0	87.4

TABLE 3

## PERCENTAGE FREQUENCY OF WIND DIRECTION BY SPEED AND BY HOUR

WIND DIR	WIND SPEED (KNOTS)							48+	TOTAL DRS	PCT FREQ	MEAN SPD	HOUR (GMT)							
	0-3	4-10	11-21	22-33	34-47	00	03					06	09	12	15	18	21		
N	.5	1.5	.4	.1	.0	.0		2.5	7.9	6.2	3.7	3.0	.0	1.1	.0	1.6	25.0		
NE	1.1	3.1	1.1	.2	.0	.0		5.5	8.0	10.3	6.8	2.5	.0	2.6	4.8	7.2	.0		
E	1.8	5.8	4.0	.5	.0	.0		12.1	9.5	10.9	12.6	11.6	33.3	9.2	14.0	14.8	.0		
SE	1.1	10.7	12.9	1.2	.1	.0		26.1	11.7	23.2	25.5	21.6	.0	26.8	26.1	31.5	50.0		
S	1.2	11.3	11.3	1.0	.0	.0		24.7	11.4	19.9	21.7	21.0	33.3	29.7	29.7	20.1	.0		
SW	.5	7.8	8.4	1.5	.2	.0		18.3	12.9	17.8	16.8	22.7	16.7	19.4	16.4	16.7	25.0		
W	.5	2.2	3.2	1.3	.1	.0		7.3	14.5	7.4	8.6	8.5	16.7	7.9	5.6	5.5	.0		
NW	.2	.6	.8	.4	.0	.0		2.0	13.2	2.6	1.9	2.2	.0	1.5	2.8	1.2	.0		
VAR	.0	.0	.0	.0	.0	.0		.0	.0	.0	.0	.0	.0	.0	.0	.0	.0		
CALM	1.5							1.5	.0	1.8	2.3	1.0	.0	1.5	.6	1.3	.0		
TOT DRS	103	534	522	77	5	0	1241		11.3	170	214	192	3	258	177	223	4		
TOT PCT	8.3	43.0	42.1	6.2	.4	.0		100.0		100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0		

TABLE 3A

WIND DIR	WIND SPEED (KNOTS)							TOTAL DRS	PCT FREQ	MEAN SPD	HOUR (GMT)			
	0-6	7-16	17-27	28-40	41+						00	06	12	18
N	1.1	1.3	.1	.0	.0			.0	2.5	7.9	4.8	2.9	.6	2.0
NE	2.7	2.2	.6	.0	.0			.0	5.5	8.0	8.3	2.4	3.5	7.0
E	4.5	6.0	1.6	.0	.0			.0	12.1	9.5	11.8	11.9	11.1	14.5
SE	5.2	15.1	5.6	.2	.0			.0	26.1	11.7	24.5	21.3	26.6	31.9
S	4.8	14.9	4.8	.2	.0			.0	24.7	11.4	20.9	27.1	29.7	19.7
SW	3.2	9.6	4.7	.8	.0			.0	18.3	12.9	17.3	22.6	18.2	16.9
W	1.1	3.4	2.2	.6	.0			.0	7.3	14.5	8.1	8.6	7.0	5.4
NW	.7	.6	.6	.2	.0			.0	2.0	13.2	2.2	2.2	2.1	1.2
VAR	.0	.0	.0	.0	.0			.0	.0	.0	.0	.0	.0	.0
CALM	1.5							1.5	.0		2.1	1.0	1.1	1.3
TOT DRS	305	659	251	26	0	1241			11.3		384	195	435	227
TOT PCT	24.6	53.1	20.2	2.1	.0			100.0			100.0	100.0	100.0	100.0

JANUARY

PERIOD: (PRIMARY) 1911-1971  
(OVER-ALL) 1857-1971AREA 0013 SPENCER GULF  
35.25 136.9F

TABLE 4

PERCENTAGE FREQUENCY OF WIND SPEED BY HOUR (GMT)

HOUR	CALM	1-3	4-10	WIND SPEED (KNOTS)				48+	MEAN	PCT FREQ	TOTAL OBS
				11-21	22-33	34-47					
00003	2.1	9.1	42.4	39.1	5.5	.8	.0	.0	11.2	100.0	384
06009	1.0	8.7	35.4	50.3	4.6	.0	.0	.0	11.0	100.0	195
12015	1.1	5.1	42.3	43.2	7.8	.5	.0	.0	11.8	100.0	435
18021	1.3	4.8	52.0	37.9	4.0	.0	.0	.0	10.5	100.0	227
TOT	18	85	534	522	77	5	0	0	11.3		1241
PCT	1.5	6.8	43.0	42.1	5.2	.4	.0	.0	100.0		

TABLE 5

PCT FREQ OF TOTAL CLOUD AMOUNT (EIGHTHS)  
BY WIND DIRECTION

WIND DIR	0-2	3-4	5-7	8 & OBSCD	TOTAL OBS	MEAN CLOUD COVER
N	1.4	.0	.0	.4		2.4
NE	3.3	.8	.8	.4		2.3
E	5.4	1.6	1.2	1.1		2.3
SE	14.6	3.1	6.8	3.2		3.2
S	11.1	3.5	6.0	4.9		3.8
SW	6.2	6.9	5.5	2.0		3.8
W	.7	1.9	2.1	2.5		5.6
NW	.8	.0	.0	1.2		5.2
VAR	.0	.0	.0	.0		.0
CALM	.8	.0	.0	.0		.0
TOT OBS	105	42	53	37	237	3.5
TOT PCT	44.3	17.7	22.4	15.6	100.0	

TABLE 6

PERCENTAGE FREQUENCY OF CEILING HEIGHTS (FT, NH >4/8)  
AND OCCURRENCE OF NH <5/8 BY WIND DIRECTION

	000	150	300	600	1000	2000	3500	5000	6500	8000+	NH <5/8 ANY HGT	TOTAL OBS
	149	299	599	999	1999	3499	4999	6499	7999			
N	.0	.0	.0	.0	.0	.4	.0	.0	.0	.0	1.4	
NE	.0	.0	.0	.0	.0	.4	.0	.0	.0	.0	.4	
E	.0	.0	.0	.3	.4	.0	.0	.0	.0	.0	.3	
SE	.0	.0	.0	1.8	2.3	1.6	.6	.0	.4	.5	20.3	
S	.0	.0	.0	.4	5.5	2.8	1.2	.7	.2	.0	14.5	
SW	.0	.0	.0	.4	2.4	1.1	1.2	.1	.2	.0	15.2	
W	.0	.0	.0	1.4	1.2	.4	.4	.4	.0	.0	3.5	
NW	.0	.0	.0	.3	.0	.4	.0	.0	.0	.0	1.3	
VAR	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
CALM	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
TOT OBS	0	0	0	11	28	17	8	3	2	3	165	237
TOT PCT	.0	.0	.0	4.6	11.8	7.2	3.4	1.3	.8	1.3	69.6	100.0

TABLE 7

CUMULATIVE PCT FREQ OF SIMULTANEOUS OCCURRENCE  
OF CEILING HEIGHT (NH >4/8) AND VSBY (NM)

CEILING (FEET)	VSBY (NM)							
	>10	>5	>2	>1	>1/2	>1/4	>50YD	>0
>5000	2.1	2.1	2.1	2.1	2.1	2.1	2.1	2.1
>4000	3.3	3.3	3.3	3.3	3.3	3.3	3.3	3.3
>3500	7.1	7.1	7.1	7.1	7.1	7.1	7.1	7.1
>3000	13.7	13.7	14.1	14.1	14.1	14.1	14.1	14.1
>2500	24.5	25.3	25.7	25.7	25.7	25.7	25.7	25.7
>2000	27.8	29.0	30.3	30.3	30.3	30.3	30.3	30.3
>1500	27.8	29.0	30.3	30.3	30.3	30.3	30.3	30.3
>1000	27.8	29.0	30.3	30.3	30.3	30.3	30.3	30.3
>500	27.8	29.0	30.3	30.3	30.3	30.3	30.3	30.3
>0	27.8	29.0	30.3	30.3	30.3	30.3	30.3	30.3
TOTAL	67	70	73	73	73	73	73	73

TOTAL NUMBER OF OBS: 241

PCT FREQ NH &lt;5/8: 69.7

TABLE 7A

PERCENTAGE FREQ OF LOW CLOUDS (EIGHTHS)

	0	1	2	3	4	5	6	7	8	OBSCD	TOTAL OBS
	27.5	14.1	10.7	8.8	6.9	4.2	2.7	10.3	14.9	.0	262

PERIOD: (PRIMARY) 1911-1971  
(OVER-ALL) 1857-1971

JANUARY

AREA 0013 SPENCER GULF  
35.25 136.9E

TABLE 8

PERCENT FREQ OF WIND DIRECTION VS OCCURRENCE OR NON-OCCURRENCE OF  
PRECIPITATION WITH VARYING VALUES OF VISIBILITY

VSBY (NM)		N	NE	E	SE	S	SW	W	NW	VAR	CALM	PCT	TOTAL OBS
<1/2	PCP	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
	NO PCP	.0	.0	.0	.0	.2	.0	.2	.0	.0	.0	.3	.3
	TOT %	.0	.0	.0	.0	.2	.0	.2	.0	.0	.0	.3	.3
1/2<1	PCP	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
	NO PCP	.0	.2	.3	.2	.4	.2	.2	.0	.0	.0	1.4	1.4
	TOT %	.0	.2	.3	.2	.4	.2	.2	.0	.0	.0	1.4	1.4
1<2	PCP	.0	.0	.1	.2	.0	.0	.0	.0	.0	.0	.3	.3
	NO PCP	.2	.2	.2	.2	.3	.2	.0	.0	.0	.0	1.4	1.4
	TOT %	.2	.2	.3	.5	.3	.2	.0	.0	.0	.0	1.7	1.7
2<5	PCP	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
	NO PCP	.0	.0	.2	.3	.2	.0	.0	.2	.0	.0	.8	.8
	TOT %	.0	.0	.2	.3	.2	.0	.0	.2	.0	.0	.8	.8
5<10	PCP	.1	.1	.4	.5	.8	1.7	1.1	.5	.0	.0	5.3	5.3
	NO PCP	1.4	2.3	6.5	10.7	10.9	9.3	3.2	.5	.0	.2	44.8	44.8
	TOT %	1.4	2.4	6.9	11.2	11.8	11.0	4.3	.9	.0	.2	50.1	50.1
10+	PCP	.2	.0	.0	.0	.0	.3	.3	*	.0	.0	.8	.8
	NO PCP	.9	2.8	4.7	12.3	12.1	8.8	2.3	.6	.0	.5	45.1	45.1
	TOT %	1.1	2.8	4.7	12.3	12.1	9.1	2.6	.6	.0	.5	45.8	45.8
TOT OBS													
TOT PCT													
		2.7	5.5	12.4	24.4	24.9	20.5	7.2	1.7	.0	.6	100.0	659

TABLE 9

PERCENT FREQ OF WIND DIRECTION VS WIND SPEED  
WITH VARYING VALUES OF VISIBILITY

VSRY (NM)	SPD KTS	N	NE	E	SE	S	SW	W	NW	VAR	CALM	PCT	TOTAL OBS
<1/2	0-3	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
	4-10	.0	.0	.0	.0	.1	.0	.1	.0	.0	.0	.2	.2
	11-21	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
	22+	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
	TOT %	.0	.0	.0	.0	.1	.0	.1	.0	.0	.0	.2	.2
1/2<1	0-3	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
	4-10	.0	.0	.2	.0	.1	.1	.1	.0	.0	.0	.6	.6
	11-21	.0	.1	.0	.1	.2	.1	.0	.0	.0	.0	.5	.5
	22+	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
	TOT %	.0	.1	.2	.1	.3	.2	.1	.0	.0	.0	1.1	1.1
1<2	0-3	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
	4-10	.2	.2	.1	.0	.0	.0	.0	.0	.0	.0	.5	.5
	11-21	.1	.0	.1	.3	.2	.1	.0	.0	.0	.0	.9	.9
	22+	.0	.0	.1	.1	.0	.0	.0	.0	.0	.0	.1	.1
	TOT %	.3	.2	.2	.4	.2	.1	.0	.0	.0	.0	1.5	1.5
2<5	0-3	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
	4-10	.0	.0	.1	.2	.1	.0	.0	.0	.0	.0	.4	.4
	11-21	.0	.0	.1	.1	.0	.0	.0	.1	.0	.0	.2	.2
	22+	.0	.0	.1	.0	.0	.0	.0	.0	.0	.0	.1	.1
	TOT %	.0	.0	.2	.3	.1	.0	.0	.1	.0	.0	.7	.7
5<10	0-3	.3	.4	.9	.4	.2	.1	.2	.1	.0	.1	2.9	2.9
	4-10	.7	.9	2.2	2.7	3.1	3.4	.9	.2	.0	.0	14.1	14.1
	11-21	.1	.6	2.1	5.9	5.8	5.2	1.9	.2	.0	.0	21.7	21.7
	22+	.1	.1	.4	.4	.6	.4	.7	.2	.0	.0	2.9	2.9
	TOT %	1.2	1.9	5.7	9.4	9.7	9.0	3.7	.7	.0	.1	41.5	41.5
10+	0-3	.3	.4	.2	.3	.7	.3	.3	.1	.0	.5	3.1	3.1
	4-10	.3	2.0	3.1	6.6	8.4	5.4	1.1	.3	.0	.0	27.3	27.3
	11-21	.2	.6	2.1	7.3	6.8	3.8	1.5	.3	.0	.0	22.5	22.5
	22+	.0	.0	.0	.9	.1	.4	.2	.4	.0	.0	2.0	2.0
	TOT %	.9	3.0	5.4	15.2	15.9	9.9	3.1	1.1	.0	.5	54.9	54.9
TOT OBS													
TOT PCT													
		2.4	5.2	11.7	25.3	26.5	19.2	7.0	2.0	.0	.6	100.0	803

JANUARY

AREA 0013 SPENCER GULF  
35.25 136.9FPERIOD: (PRIMARY) 1911-1971  
(OVER-ALL) 1857-1971

TABLE 10

PERCENT FREQUENCY OF CEILING HEIGHTS (FEET, NH > 4/8) AND  
OCCURRENCE OF NH < 5/8 BY HOUR

HOUR (GMT)	000 149	150 299	300 599	600 999	1000 1999	2000 3499	3500 4999	5000 6499	6500 7999	8000+	TOTAL	NH < 5/8 ANY HGT	TOTAL OBS
00003	.0	.0	.0	4.8	9.5	7.1	.0	2.4	.0	.0	23.8	76.2	42
06009	.0	.0	.0	3.4	8.5	3.4	6.8	.0	1.7	.0	23.7	76.3	59
12015	.0	.0	.0	4.8	7.2	9.6	1.2	.0	1.2	3.6	27.7	72.3	83
18021	.0	.0	.0	4.5	19.4	6.0	6.0	3.0	.0	.0	38.8	61.2	67
TOT	0	0	0	11	28	17	9	3	2	3	73	178	251
PCT	.0	.0	.0	4.4	11.2	6.8	3.6	1.2	.8	1.2	29.1	70.9	100.0

TABLE 11

PERCENT FREQUENCY VSRY (NM) BY HOUR

HOUR (GMT)	<1/2	1/2<1	1<2	2<5	5<10	10+	TOTAL OBS
00003	1.1	1.1	3.2	2.1	52.6	40.0	190
06009	.0	2.7	2.7	.0	33.6	61.0	146
12015	.0	1.0	1.3	.6	42.0	55.1	312
18021	.0	.0	.6	.0	36.4	63.1	176
TOT	2	9	15	6	344	448	824
PCT	.2	1.1	1.8	.7	41.7	54.4	100.0

TABLE 12

CUMULATIVE PCT FREQ OF RANGES OF VSRY (NM) AND/OR  
CEILING HGT (FEET, NH > 4/8) BY HOUR

HOUR (GMT)	<150 <500	<600 <1	<1000 <5	1000+ AND 5+	NH < 5/8 AND 5+	TOTAL OBS
00003	.0	2.5	7.5	20.0	72.5	40
06009	.0	.0	3.5	21.1	75.4	57
12015	.0	.0	6.4	23.1	70.5	78
18021	.0	.0	4.5	34.8	60.6	68
TOT	0	1	13	61	167	241
PCT	.0	.4	5.4	25.3	69.3	100.0

TABLE 13

PERCENT FREQUENCY OF RELATIVE HUMIDITY BY TEMP

TEMP F	0-29	30-39	40-49	50-59	60-69	70-79	80-89	90-100	TOTAL OBS	PCT FREQ
80/84	.2	.0	.2	.0	.5	.2	.0	.0	5	1.2
75/79	.0	.0	.2	1.9	.2	.5	.0	.0	12	2.9
70/74	.0	.0	.5	.5	3.3	3.8	2.1	.2	44	10.5
65/69	.0	.0	.0	1.2	4.8	16.4	16.2	5.0	111	26.4
60/64	.0	.0	.0	.0	2.4	2.9	4.3	.2	204	48.6
55/59	.0	.0	.0	.0	.0	.0	.0	.2	43	10.2
50/54	.0	.0	.0	.0	.0	.0	.0	.2	1	.2
TOTAL	1	0	5	27	81	123	131	52	420	100.0
PCT	.2	.0	1.2	6.4	19.3	29.3	31.2	12.4		

TABLE 14

PERCENT FREQUENCY OF WIND DIRECTION BY TEMP

	N	NE	E	SE	S	SW	W	NW	VAR	CALM
80/84	.2	.2	.0	.2	.5	.0	.0	.0	.0	.0
75/79	.7	.5	.5	.5	.2	.2	.2	.0	.0	.0
70/74	.4	1.4	2.1	1.4	1.9	2.3	.7	.2	.0	.7
65/69	.6	1.1	2.4	7.0	4.5	5.3	4.3	.5	.0	.0
60/64	.3	1.1	4.5	13.0	14.4	11.4	2.7	1.2	.0	.2
55/59	.2	.0	1.2	1.9	3.4	2.6	.5	.2	.0	.0
50/54	.0	.0	.0	.0	.0	.2	.0	.0	.0	.0
TOTAL	2.4	4.4	10.7	24.0	24.9	22.0	8.5	2.2	.0	1.0

TABLE 15

MEANS, EXTREMES AND PERCENTILES OF TEMP (DEG F) BY HOUR

HOUR (GMT)	MAX	99%	95%	50%	5%	1%	MIN	MEAN	TOTAL OBS
00003	83	80	74	65	59	57	55	65.5	375
06009	86	84	79	67	61	59	59	67.6	184
12015	81	77	72	63	59	56	53	63.7	432
18021	82	77	70	62	58	56	53	62.6	229
TOT	86	79	74	64	59	57	53	64.6	1220

TABLE 16

PERCENT FREQUENCY OF RELATIVE HUMIDITY BY HOUR

HOUR (GMT)	0-29	30-59	60-69	70-79	80-89	90-100	MEAN	TOTAL OBS
00003	.0	16.3	23.9	21.7	26.1	12.0	74	92
06009	1.1	13.5	23.6	32.6	24.7	4.5	72	80
12015	.7	4.0	12.8	32.9	32.2	17.4	79	149
18021	.0	.0	21.9	27.1	39.6	11.5	79	96
TOT	2	33	83	124	132	52	77	426



PERIOD: (PRIMARY) 1911-1971  
(OVER-ALL) 1857-1971

JANUARY

AREA 0013 SPENCER GULF  
35.25 136.9E

TABLE 17

PCT FRQ OF AIR TEMPERATURE (DEG F) AND THE OCCURRENCE OF FOG (WITHOUT PRECIPITATION)  
VS AIR-SEA TEMPERATURE DIFFERENCE (DEG F)

AIR-SEA TMP DIF	53 56	57 60	61 64	65 68	69 72	73 76	77 80	81 84	85 88	TOT	N FOG	W FOG
14/10	.0	.0	.0	.0	.0	.0	.2	.2	.2	3	.0	.5
11/13	.0	.0	.0	.0	.2	.2	.3	.3	.0	6	.0	1.0
9/10	.0	.0	.0	.0	.3	.5	1.0	.2	.0	12	.2	1.8
7/8	.0	.0	.2	.0	1.3	1.1	.8	.3	.0	23	.2	3.6
6	.0	.0	.2	.2	1.0	.3	.2	.0	.0	11	.3	1.5
5	.0	.0	.3	.3	1.6	.6	.2	.0	.0	19	.0	3.1
4	.0	.0	.3	.5	2.3	.8	.2	.0	.0	25	.0	4.1
3	.0	.0	.2	1.6	1.6	.0	.2	.0	.0	22	.2	3.4
2	.0	.3	1.8	3.2	2.3	.0	.0	.0	.0	47	.0	7.6
1	.0	.3	2.4	3.4	1.1	.3	.0	.0	.0	50	.2	8.0
0	.0	1.3	6.2	6.7	.8	.0	.0	.0	.0	92	.5	14.4
-1	.3	1.3	5.4	3.1	.2	.2	.0	.0	.0	64	.0	10.4
-2	.0	2.4	5.0	2.4	.2	.2	.0	.0	.0	63	.5	9.7
-3	.0	4.1	5.4	1.1	.0	.0	.0	.0	.0	65	.2	10.4
-4	.0	3.2	3.9	.3	.0	.0	.0	.0	.0	46	.2	7.3
-5	.3	2.6	2.4	.3	.0	.0	.0	.0	.0	35	.2	5.5
-6	.0	1.5	.8	.5	.0	.0	.0	.0	.0	17	.0	2.8
-7/-8	.0	1.9	.5	.0	.0	.0	.0	.0	.0	15	.0	2.4
-9/-10	.0	.0	.2	.0	.0	.0	.0	.0	.0	1	.0	.2
TOTAL	4	117	216	149	79	26	18	6	1	616	15	601
PCT	.6	19.0	35.1	24.2	12.8	4.2	2.9	1.0	.2	100.0	2.4	97.6

PERIOD: (OVER-ALL) 1963-1971

TABLE 18

PCT FRQ OF WIND SPEED (KTS) AND DIRECTION VERSUS SEA HEIGHTS (FT)

HGT	1-3	4-10	11-21	22-33	34-47	48+	PCT	1-3	4-10	11-21	22-33	34-47	48+	PCT
<1	1.0	.0	.0	.0	.0	.0	1.0	1.9	.0	.0	.0	.0	.0	1.9
1-2	.0	.0	.6	.0	.0	.0	.6	.0	1.1	.0	.0	.0	.0	1.1
3-4	.0	1.0	.0	.0	.0	1.0	.0	.0	.7	.6	.0	.0	.0	1.3
5-6	.0	.0	.6	.0	.0	.0	.6	.0	.0	.0	.0	.0	.0	.0
7	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
8-9	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
10-11	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
12	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
13-16	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
17-19	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
20-22	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
23-25	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
26-32	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
33-40	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
41-48	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
49-60	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
61-70	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
71-86	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
87+	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
TOT PCT	1.0	1.0	1.1	.0	.0	.0	3.2	1.9	1.9	.6	.0	.0	.0	4.3

HGT	1-3	4-10	11-21	22-33	34-47	48+	PCT	1-3	4-10	11-21	22-33	34-47	48+	PCT
<1	.0	.9	.0	.0	.0	.0	.9	.1	2.2	.0	.0	.0	.0	2.3
1-2	.0	2.0	.6	.0	.0	.0	2.6	.0	6.5	1.9	.0	.0	.0	8.3
3-4	.0	1.7	1.4	.0	.0	.0	3.2	.0	3.4	4.7	.6	.0	.0	8.8
5-6	.0	.0	.6	.0	.0	.0	.6	.0	.6	4.0	.0	.0	.0	4.6
7	.0	.0	.0	.0	.0	.0	.0	.0	.0	1.1	.6	.0	.0	1.7
8-9	.0	.0	.0	.0	.0	.0	.0	.0	.0	1.1	.0	.0	.0	1.1
10-11	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	1.1	.0	.0	1.1
12	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
13-16	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
17-19	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
20-22	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
23-25	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
26-32	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
33-40	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
41-48	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
49-60	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
61-70	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
71-86	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
87+	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
TOT PCT	.0	4.6	2.6	.0	.0	.0	7.2	.1	12.6	12.9	2.3	.0	.0	28.0

PERIOD: (OVER-ALL) 1963-1971

JANUARY

AREA 0013 SPENCER GULF  
35.25 136.9E

TABLE 18 (CONT)

PCT FREQ OF WIND SPEED (KTS) AND DIRECTION VERSUS SEA HEIGHTS (FT)

HGT	S							SW							PCT
	1-3	4-10	11-21	22-33	34-47	48+	PCT	1-3	4-10	11-21	22-33	34-47	48+	PCT	
<1	.9	2.0	.0	.0	.0	.0	2.9	.1	1.3	.0	.0	.0	.0	1.4	
1-2	.6	6.8	1.4	.0	.0	.0	8.8	.0	2.9	1.3	.0	.0	.0	4.2	
3-4	.0	1.6	7.3	.0	.0	.0	8.9	.6	5.0	4.9	.6	.0	.0	11.1	
5-6	.0	.6	2.7	.0	.0	.0	3.3	.0	1.7	3.0	.0	.0	.0	4.7	
7	.0	.0	.6	.0	.0	.0	.6	.0	.0	1.3	.0	.0	.0	1.3	
8-9	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
10-11	.0	.0	.6	.0	.0	.0	.6	.0	.0	.0	.0	.0	.0	.0	
12	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
13-16	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
17-19	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
20-22	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
23-25	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
26-32	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
33-40	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
41-48	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
49-60	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
61-70	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
71-86	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
87+	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
TOT PCT	1.4	10.9	12.6	.0	.0	.0	25.0	.7	11.5	10.5	.6	.0	.0	23.3	

HGT	W							NW							TOTAL PCT
	1-3	4-10	11-21	22-33	34-47	48+	PCT	1-3	4-10	11-21	22-33	34-47	48+	PCT	
<1	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.6	
1-2	.0	.9	.0	.0	.0	.0	.9	.0	.0	.0	.0	.0	.0	.0	
3-4	.0	2.0	.0	.0	.0	.0	2.0	.0	.0	.0	.0	.0	.0	.0	
5-6	.0	.0	1.0	.6	.0	.0	1.6	.0	.0	.1	.0	.0	.0	.1	
7	.0	.0	1.4	1.0	.0	.0	2.4	.0	.0	.1	.0	.0	.0	.3	
8-9	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
10-11	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
12	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
13-16	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
17-19	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
20-22	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
23-25	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
26-32	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
33-40	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
41-48	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
49-60	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
61-70	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
71-86	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
87+	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
TOT PCT	.0	2.9	2.4	1.6	.0	.0	6.9	.0	.6	.3	.1	.0	.0	1.0	98.9

WIND SPEED (KTS) VS SEA HEIGHT (FT)

HGT	0-3	4-10	11-21	22-33	34-47	48+	PCT	TOT DBS
<1	6.7	6.7	.0	.0	.0	.0	13.5	
1-2	1.1	19.7	5.6	.0	.0	.0	26.4	
3-4	.6	15.2	18.5	1.1	.0	.0	35.4	
5-6	.0	2.8	11.8	.6	.0	.0	15.2	
7	.0	.0	4.5	1.7	.0	.0	6.2	
8-9	.0	.6	1.1	.0	.0	.0	1.7	
10-11	.0	.0	.6	1.1	.0	.0	1.7	
12	.0	.0	.0	.0	.0	.0	.0	
13-16	.0	.0	.0	.0	.0	.0	.0	
17-19	.0	.0	.0	.0	.0	.0	.0	
20-22	.0	.0	.0	.0	.0	.0	.0	
23-25	.0	.0	.0	.0	.0	.0	.0	
26-32	.0	.0	.0	.0	.0	.0	.0	
33-40	.0	.0	.0	.0	.0	.0	.0	
41-48	.0	.0	.0	.0	.0	.0	.0	
49-60	.0	.0	.0	.0	.0	.0	.0	
61-70	.0	.0	.0	.0	.0	.0	.0	
71-86	.0	.0	.0	.0	.0	.0	.0	
87+	.0	.0	.0	.0	.0	.0	.0	
TOT PCT	8.4	44.9	42.1	4.5	.0	.0	100.0	178

PERIOD: (OVER-ALL) 1949-1971

TABLE 19

PERCENT FREQUENCY OF WAVE HEIGHT (FT) VS WAVE PERIOD (SECONDS)

PERIOD (SEC)	<1	1-2	3-4	5-6	7	8-9	10-11	12	13-16	17-19	20-22	23-25	26-32	33-40	41-48	49-60	61-70	71-86	87+	TOTAL	MEAN HGT
<6	2.3	4.5	18.6	4.1	4.5	.9	.5	.5	.5	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	80	4
6-7	.0	.0	4.1	11.8	3.6	2.3	1.4	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	51	6
8-9	.0	.5	3.6	1.8	4.1	3.2	2.7	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	35	6
10-11	.0	.0	.9	1.4	1.4	3.2	3.2	.5	.9	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	25	8
12-13	.0	.0	.9	.5	.9	.5	.5	.0	.5	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	8	7
>13	.0	.0	.0	.0	.0	.0	.9	.0	.0	.5	.0	.0	.0	.0	.0	.0	.0	.0	.0	3	12
INDEX	3.2	1.4	.9	.9	.9	.5	.5	.0	.0	.5	.0	.0	.0	.0	.0	.0	.0	.0	.0	19	4
TOTAL	12	14	64	45	34	23	21	2	4	2	0	0	0	0	0	0	0	0	0	221	5
PCT	5.4	6.3	29.0	20.4	15.4	10.4	9.5	.9	1.8	.9	.0	.0	.0	.0	.0	.0	.0	.0	.0	100.0	

## FEBRUARY

PERIOD: (PRIMARY) 1908-1970  
(OVER-ALL) 1855-1970AREA 0013 SPENCER GULF  
35.25 136.8E

TABLE 1

## PERCENT FREQUENCY OF WEATHER OCCURRENCE BY WIND DIRECTION

WIND DIR	PRECIPITATION TYPE							OTHER WEATHER PHENOMENA							
	RAIN	RAIN SHWR	DRZL	FRZG PCPN	SNOW	OTHER FRZN PCPN	HAIL	PCPN AT OB TIME	PCPN PAST HOUR	THOR LTNG	FOG WD PCPN	FOG WD PCPN PAST HR	SMOKE HAZE	SPRAY BLWG SNOW	NO SIG WEA
N	.0	6.2	.0	.0	.0	.0	.0	6.2	4.6	.0	3.1	.0	.0	.0	86.2
NE	.0	.0	3.6	.0	.0	.0	.0	3.6	.0	.0	5.4	.0	.0	.0	91.0
E	2.1	1.4	1.1	.0	.0	.0	.0	4.6	.0	.0	4.9	.0	.7	.0	89.8
SE	5.5	3.7	.1	.0	.0	.0	.0	9.3	1.0	1.2	3.7	.0	1.6	.0	83.6
S	1.1	2.2	.6	.0	.0	.0	.0	4.0	.5	.9	3.5	.0	1.3	.0	89.9
SW	1.3	4.9	.0	.0	.0	.0	.0	6.2	1.1	1.1	3.2	.0	1.1	.0	87.3
W	2.8	7.3	.0	.0	.0	.0	.0	10.1	.0	.0	3.7	.0	.0	.0	86.2
NW	5.6	11.3	.0	.0	.0	.0	.0	16.9	1.4	5.6	.0	.0	.0	.0	76.1
VAR	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
CALM	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	100.0
TOT PCT	2.8	3.5	.5	.0	.0	.0	.0	6.8	.8	.9	3.6	.0	1.1	.0	86.9
TOT OBS:	693														

TABLE 2

## PERCENT FREQUENCY OF WEATHER OCCURRENCE BY HOUR

HOUR (GMT)	PRECIPITATION TYPE							OTHER WEATHER PHENOMENA							
	RAIN	RAIN SHWR	DRZL	FRZG PCPN	SNOW	OTHER FRZN PCPN	HAIL	PCPN AT OB TIME	PCPN PAST HOUR	THOR LTNG	FOG WD PCPN	FOG WD PCPN PAST HR	SMOKE HAZE	SPRAY BLWG SNOW	NO SIG WEA
0000	3.3	4.4	.5	.0	.0	.0	.0	8.2	.5	.0	3.3	.0	.5	.0	87.4
0600	1.8	3.7	.9	.0	.0	.0	.0	6.4	.0	.0	2.8	.0	1.8	.0	89.0
1200	2.1	2.1	.0	.0	.0	.0	.0	4.3	.9	1.3	6.0	.0	2.1	.0	85.5
1800	3.5	3.5	.7	.0	.0	.0	.0	7.6	1.4	2.1	2.1	.0	.7	.0	86.8
TOT PCT	2.7	3.3	.4	.0	.0	.0	.0	6.4	.7	.9	3.9	.0	1.3	.0	86.9
TOT OBS:	670														

TABLE 3

## PERCENTAGE FREQUENCY OF WIND DIRECTION BY SPEED AND BY HOUR

WIND DIR	WIND SPEED (KNOTS)							TOTAL OBS	PCT FREQ	MEAN SPD	HOUR (GMT)							
	0-3	4-10	11-21	22-33	34-47	48+					00	03	06	09	12	15	18	21
N	.6	1.2	.3	.0	.0	.0		2.1	6.5		2.8	2.7	1.0	.0	1.9	1.6	2.0	10.0
NE	1.1	2.3	.4	.2	.0	.0		4.2	7.3		9.6	5.6	1.4	.0	2.0	1.1	5.8	10.0
E	1.2	6.0	3.0	.4	.0	.0		10.8	9.6		12.6	12.6	6.0	20.0	5.4	12.4	15.8	10.0
SE	1.2	14.1	12.8	3.2	.5	.0		31.9	12.9		32.4	27.5	31.5	25.0	30.5	37.0	34.0	20.0
S	1.1	12.1	11.8	1.6	.0	.0		26.6	11.5		19.9	23.7	29.8	30.0	34.9	25.4	23.8	20.0
SW	1.4	6.8	6.4	.7	.0	.0		15.2	10.8		13.5	14.5	22.1	25.0	16.5	13.5	11.4	15.0
W	.3	1.9	2.6	.6	.0	.0		5.4	13.0		5.2	7.0	3.7	.0	6.5	6.8	3.3	5.0
NW	.3	1.0	.5	.2	.1	.0		2.2	10.8		1.7	3.6	1.8	.0	1.5	2.2	2.0	10.0
VAR	.0	.0	.0	.0	.0	.0		.0	.0		.0	.0	.0	.0	.0	.0	.0	.0
CALM	1.7							1.7	.0		2.2	2.9	2.8	.0	.8	.0	1.0	.0
TOT OBS	110	556	465	86	8	0	1225		11.2		178	207	178	10	246	185	211	10
TOT PCT	9.0	45.4	38.0	7.0	.7	.0		100.0			100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0

TABLE 3A

WIND DIR	WIND SPEED (KNOTS)							TOTAL OBS	PCT FREQ	MEAN SPD	HOUR (GMT)			
	0-6	7-16	17-27	28-40	41+						00	06	12	18
N	1.2	.9	.0	.0	.0			.0	2.1	6.5	2.7	.9	1.8	2.4
NE	2.7	.9	.5	.0	.0			.0	4.2	7.3	7.4	1.3	1.6	6.0
E	4.0	5.1	1.5	.2	.0			.0	10.8	9.6	12.6	6.8	8.4	15.5
SE	5.8	16.6	7.9	1.6	.0			.0	31.9	12.9	29.8	31.1	33.3	33.4
S	6.1	14.9	5.2	.3	.0			.0	26.6	11.5	21.9	29.8	30.8	23.6
SW	4.2	8.1	2.8	.2	.0			.0	15.2	10.8	14.0	22.2	15.2	11.5
W	.9	2.7	1.9	.0	.0			.0	5.4	13.0	6.2	3.5	6.6	3.4
NW	.9	.8	.3	.2	.0			.0	2.2	10.8	2.7	1.7	1.8	2.4
VAR	.0	.0	.0	.0	.0			.0	.0	.0	.0	.0	.0	.0
CALM	1.7							1.7	.0		2.6	2.7	.5	1.8
TOT OBS	337	613	246	29	0	1225			11.2		385	188	431	221
TOT PCT	27.5	50.0	20.1	2.4	.0			100.0			100.0	100.0	100.0	100.0

## FEBRUARY

PERIOD: (PRIMARY) 1908-1970  
(OVER-ALL) 1853-1970

AREA 0013 SPENCER GULF  
35.25 136.8E

TABLE 4

PERCENTAGE FREQUENCY OF WIND SPEED BY HOUR (GMT)

HOUR	CALM	1-3	4-10	WIND SPEED (KNOTS)			48+	MEAN	PCT FREQ	TOTAL OBS
				11-21	22-33	34-47				
00003	2.6	11.2	44.4	32.7	8.8	.3	.0	10.6	100.0	385
06009	2.7	5.9	43.6	38.3	9.0	.5	.0	11.4	100.0	188
12015	.5	5.4	43.4	43.9	5.6	.9	.0	11.8	100.0	431
18021	1.8	4.5	52.5	35.3	5.0	.9	.0	10.9	100.0	221
TOT	8	29	556	465	86	8	0	11.2		1225
PCT	1.7	7.3	45.4	38.0	7.0	.7	.0		100.0	

TABLE 5

PCT FREQ OF TOTAL CLOUD AMOUNT (EIGHTHS)  
BY WIND DIRECTION

WIND DIR	0-2	3-4	5-7	8 & DBSCD	TOTAL OBS	MEAN CLOUD COVER
N	.4	.5	.5	1.2		5.7
NE	3.4	.0	.9	.5		2.4
E	6.0	.9	1.9	2.0		3.2
SE	14.3	4.8	8.5	3.6		3.4
S	12.8	2.2	7.4	6.8		4.0
SW	3.6	2.3	5.8	2.2		4.7
W	1.2	.0	.5	.4		3.6
NW	1.1	.5	.5	.7		4.0
VAR	.0	.0	.0	.0		.0
CALM	1.4	.9	.0	.5		3.0
TOT OBS	94	26	55	38	213	3.8
TOT PCT	44.1	12.2	25.8	17.8	100.0	

TABLE 6

PERCENTAGE FREQUENCY OF CEILING HEIGHTS (FT, NH >4/8)  
AND OCCURRENCE OF NH <5/8 BY WIND DIRECTION

	000 149	150 299	300 599	600 999	1000 1999	2000 3499	3500 4999	5000 6499	6500 7999	8000+	NH ANY HGT	<5/8	TOTAL OBS
N	.0	.0	.0	.0	1.3	.0	.4	.0	.0	.0	.0	.8	
NE	.0	.0	.0	.0	.5	.0	.0	.0	.0	.0	.0	4.3	
E	.0	.5	.2	.5	.7	1.1	.0	.0	.0	.0	.5	7.4	
SE	.0	.0	.2	1.5	5.6	2.8	.6	.0	.0	.0	.0	20.4	
S	.0	.0	.0	1.2	4.6	3.4	1.2	.5	.0	.0	.0	18.4	
SW	.0	.0	.0	.7	2.2	1.2	1.5	.0	.0	.0	.0	8.3	
W	.0	.0	.0	.8	.0	.0	.0	.0	.0	.0	.0	1.2	
NW	.0	.0	.0	.0	.6	.0	.6	.0	.0	.0	.0	1.5	
VAR	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
CALM	.0	.0	.0	.5	.0	.0	.0	.0	.0	.0	.0	2.3	
TOT OBS	0	1	1	11	33	18	9	1	0	1	138	213	
TOT PCT	.0	.5	.5	5.2	15.5	8.5	4.2	.5	.0	.5	64.8	100.0	

TABLE 7

CUMULATIVE PCT FREQ OF SIMULTANEOUS OCCURRENCE  
OF CEILING HEIGHT (NH >4/8) AND VSBY (NM)

CEILING (FEET)	VSBY (NM)							
	>10	>5	>2	>1	>1/2	>1/4	>50YD	>0
>4500	.9	.9	.9	.9	.9	.9	.9	.9
>4000	1.4	1.4	1.4	1.4	1.4	1.4	1.4	1.4
>3500	5.4	5.4	5.4	5.4	5.4	5.4	5.4	5.4
>3000	12.6	13.5	13.5	13.5	13.5	13.5	13.5	13.5
>2500	24.8	28.8	28.8	28.8	28.8	28.8	28.8	28.8
>2000	28.8	33.8	33.8	33.8	33.8	33.8	33.8	33.8
>1500	28.8	34.2	34.2	34.2	34.2	34.2	34.2	34.2
>1000	28.8	34.2	34.7	34.7	34.7	34.7	34.7	34.7
>500	28.8	34.2	34.7	34.7	34.7	34.7	34.7	34.7
>0	28.8	34.2	34.7	34.7	34.7	34.7	34.7	34.7
TOTAL	64	76	77	77	77	77	77	77

TOTAL NUMBER OF OBS: 222

PCT FREQ NH &lt;5/8: 65.3

TABLE 7A

PERCENTAGE FREQ OF LOW CLOUDS (EIGHTHS)

	0	1	2	3	4	5	6	7	8	DBSCD	TOTAL OBS
	23.5	21.0	7.8	9.1	4.1	4.9	7.4	10.3	11.9	.0	243

PERIOD: (PRIMARY) 1908-1970  
(OVER-ALL) 1855-1970

FEBRUARY

AREA 0013 SPENCER GULF  
35.25 136.8E

TABLE 8

PERCENT FREQ OF WIND DIRECTION VS OCCURRENCE OR NON-OCCURRENCE OF  
PRECIPITATION WITH VARYING VALUES OF VISIBILITY

VISBY (NM)		N	NE	E	SE	S	SW	W	NW	VAR	CALM	PCT	TOTAL OBS
<1/2	PCP	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
	NO PCP	.0	.2	.0	.3	.0	.0	.0	.0	.0	.0	.5	.5
	TOT %	.0	.2	.0	.3	.0	.0	.0	.0	.0	.0	.5	.5
1/2<1	PCP	.0	.0	.0	1.4	.0	.0	.0	.0	.0	.0	1.4	1.4
	NO PCP	.1	.1	.6	.9	.7	.3	.2	.0	.0	.0	2.8	2.8
	TOT %	.1	.1	.6	2.4	.7	.3	.2	.0	.0	.0	4.3	4.3
1<2	PCP	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
	NO PCP	.0	.0	.1	.2	.3	.0	.0	.0	.0	.0	.6	.6
	TOT %	.0	.0	.1	.2	.3	.0	.0	.0	.0	.0	.6	.6
2<5	PCP	.0	.0	.2	.0	.0	.0	.0	.0	.0	.0	.2	.2
	NO PCP	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
	TOT %	.0	.0	.2	.0	.0	.0	.0	.0	.0	.0	.2	.2
5<10	PCP	.3	.2	.4	1.4	.7	.7	.3	.3	.0	.0	4.3	4.3
	NO PCP	1.5	2.2	5.6	16.4	11.2	6.7	2.8	1.2	.0	.0	47.6	47.6
	TOT %	1.9	2.4	6.0	17.8	11.9	7.4	3.1	1.5	.0	.0	51.9	51.9
10+	PCP	.0	.0	.0	.4	.3	.2	.1	.2	.0	.0	1.1	1.1
	NO PCP	.8	1.8	4.4	12.9	11.8	6.7	.9	1.1	.0	1.1	41.5	41.5
	TOT %	.8	1.8	4.4	13.2	12.0	6.9	1.1	1.3	.0	1.1	42.6	42.6
TOT OBS													
TOT PCT													
		2.7	4.4	11.2	34.0	24.9	14.6	4.3	2.8	.0	1.1	100.0	634

TABLE 9

PERCENT FREQ OF WIND DIRECTION VS WIND SPEED  
WITH VARYING VALUES OF VISIBILITY

VISBY (NM)	SPD KTS	N	NE	E	SE	S	SW	W	NW	VAR	CALM	PCT	TOTAL OBS
<1/2	0-3	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
	4-10	.0	.1	.0	.1	.0	.0	.0	.0	.0	.0	.3	.3
	11-21	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
	22+	.0	.0	.0	.1	.0	.0	.0	.0	.0	.0	.1	.1
	TOT %	.0	.1	.0	.3	.0	.0	.0	.0	.0	.0	.4	.4
1/2<1	0-3	.0	.0	.1	.1	.0	.1	.0	.0	.0	.0	.3	.3
	4-10	.1	.1	.1	.1	.1	.1	.1	.0	.0	.0	.7	.7
	11-21	.0	.0	.3	.6	.5	.1	.0	.0	.0	.0	1.5	1.5
	22+	.0	.0	.0	1.2	.0	.0	.0	.0	.0	.0	1.2	1.2
	TOT %	.1	.1	.5	2.0	.6	.3	.1	.0	.0	.0	3.6	3.6
1<2	0-3	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
	4-10	.0	.0	.0	.0	.1	.0	.0	.0	.0	.0	.1	.1
	11-21	.0	.0	.1	.2	.1	.0	.0	.0	.0	.0	.4	.4
	22+	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
	TOT %	.0	.0	.1	.2	.3	.0	.0	.0	.0	.0	.5	.5
2<5	0-3	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
	4-10	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
	11-21	.0	.0	.1	.0	.1	.0	.0	.0	.0	.0	.3	.3
	22+	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
	TOT %	.0	.0	.1	.0	.1	.0	.0	.0	.0	.0	.3	.3
5<10	0-3	.5	.9	.4	.5	.7	.7	.2	.2	.0	.3	4.4	4.4
	4-10	.7	.9	3.5	7.2	3.7	2.5	.9	.6	.0	.0	20.2	20.2
	11-21	.4	.2	1.3	6.1	5.4	2.9	1.3	.5	.0	.0	18.0	18.0
	22+	.0	.0	.0	1.5	.6	.7	.3	.0	.0	.0	3.2	3.2
	TOT %	1.6	2.0	5.2	15.4	10.4	6.9	2.7	1.3	.0	.3	45.8	45.8
10+	0-3	.4	.1	.1	.9	.1	.4	.0	.4	.0	1.1	3.5	3.5
	4-10	.5	1.1	2.9	9.0	7.6	4.5	.6	.6	.0	.0	26.8	26.8
	11-21	.0	.1	.9	5.3	6.2	2.5	.5	.1	.0	.0	15.8	15.8
	22+	.0	.1	.5	1.4	1.0	.1	.0	.1	.0	.0	3.3	3.3
	TOT %	.9	1.5	4.4	16.6	15.0	7.5	1.2	1.2	.0	1.1	49.4	49.4
TOT OBS													
TOT PCT													
		2.6	3.7	10.3	34.4	26.4	14.7	4.0	2.5	.0	1.3	100.0	749



## FEBRUARY

PERIOD: (PRIMARY) 1908-1970  
(OVER-ALL) 1855-1970AREA 0013 SPENCER GULF  
35.25 136.8E

TABLE 10

PERCENT FREQUENCY OF CEILING HEIGHTS (FEET, NM >4/8) AND  
OCCURRENCE OF NM <5/8 BY HOUR

HOUR (GMT)	000 149	150 299	300 599	600 999	1000 1999	2000 3499	3500 4999	5000 6499	6500 7999	8000+	TOTAL	NH <5/8 ANY HGT	TOTAL OBS
00003	.0	.0	.0	5.4	16.1	12.5	3.6	.0	.0	.0	27.5	62.5	56
06009	.0	1.9	.0	5.7	11.3	5.7	7.5	1.9	.0	.0	34.0	66.0	53
12015	.0	.0	.0	7.8	14.1	4.7	1.6	.0	.0	1.6	29.7	70.3	64
18021	.0	.0	1.6	.0	15.9	7.9	3.2	.0	.0	1.6	30.2	69.8	63
TOT	0	1	1	11	34	18	9	1	0	2	77	159	236
PCT	.0	.4	.4	4.7	14.4	7.6	3.8	.4	.0	.8	32.6	67.4	100.0

TABLE 11

PERCENT FREQUENCY VS BY (NM) BY HOUR

HOUR (GMT)	<1/2	1/2<1	1<2	2<5	5<10	10+	TOTAL OBS
00003	.0	4.9	.5	.0	52.7	42.0	205
06009	.0	2.3	.8	1.5	42.3	53.1	130
12015	.3	3.7	1.0	.0	47.6	47.3	294
18021	1.3	2.5	.0	.0	38.6	57.6	158
TOT	3	28	5	2	364	385	787
PCT	.4	3.6	.6	.3	46.3	48.9	100.0

TABLE 12

CUMULATIVE PCT FREQ OF RANGES OF VS BY (NM) AND/OR  
CEILING HGT (FEET, NM >4/8), BY HOUR

HOUR (GMT)	<150 <50YD	<600 1	<1000 5	1000+ AND5+	NH <5/8 AND 5+	TOTAL OBS
00003	.0	.0	5.5	32.7	61.8	55
06009	.0	2.0	8.0	28.0	64.0	50
12015	.0	.0	8.3	23.3	68.3	60
18021	1.8	3.5	3.5	31.6	64.9	57
TOT	1	3	14	64	144	222
PCT	.5	1.4	6.3	28.8	64.9	100.0

TABLE 13

PERCENT FREQUENCY OF RELATIVE HUMIDITY BY TEMP

TEMP F	0-29	30-39	40-49	50-59	60-69	70-79	80-89	90-100	TOTAL OBS	PCT FREQ
60/84	.0	.0	.0	.0	.3	.0	.0	.0	1	.3
75/79	.0	.0	.0	.9	.4	.9	.3	.0	9	2.6
70/74	.0	.0	.0	.6	2.6	5.6	2.9	1.2	44	12.9
65/69	.0	.0	.0	.9	4.7	8.8	14.1	7.0	121	35.5
60/64	.0	.0	.0	.4	10.0	13.8	13.2	5.3	146	42.8
55/59	.0	.0	.0	.6	1.2	2.1	1.5	.6	20	5.9
TOTAL	0	0	0	12	66	106	109	48	341	100.0
PCT	.0	.0	.0	3.5	19.4	31.1	32.0	14.1		

TABLE 14

PERCENT FREQUENCY OF WIND DIRECTION BY TEMP

	N	NE	E	SE	S	SW	W	NW	VAR	CALM
60/84	.2	.0	.0	.0	.0	.0	.0	.1	.0	.0
75/79	.4	.3	.0	.6	.4	.1	.3	.1	.0	.3
70/74	.0	1.8	.7	4.6	2.7	1.0	1.0	.6	.0	.6
65/69	.0	1.1	4.4	12.5	7.1	5.8	2.1	1.0	.0	.9
60/64	.2	.5	4.7	14.4	13.1	7.6	.8	1.1	.0	.3
55/59	.2	.0	.2	1.8	2.2	1.0	.3	.1	.0	.0
TOTAL	1.7	3.7	10.0	34.0	25.6	15.5	4.4	3.0	.0	2.1

TABLE 15

MEANS, EXTREMES AND PERCENTILES OF TEMP (DEG F) BY HOUR

HOUR (GMT)	MAX	99%	95%	50%	5%	1%	MIN	MEAN	TOTAL OBS
00003	84	81	77	65	60	58	54	66.6	371
06009	83	81	77	66	60	58	57	67.6	182
12015	84	78	73	65	59	58	51	65.5	443
18021	75	73	71	63	59	57	56	63.7	230
TOT	84	80	74	65	59	58	51	65.8	1226

TABLE 16

PERCENT FREQUENCY OF RELATIVE HUMIDITY BY HOUR

HOUR (GMT)	0-29	30-59	60-69	70-79	80-89	90-100	MEAN	TOTAL OBS
00003	.0	6.9	25.3	32.2	25.3	10.3	76	87
06009	.0	6.3	23.4	39.1	25.0	6.3	74	64
12015	.0	.8	19.7	27.0	36.1	16.4	79	122
18021	.0	1.3	7.5	30.0	41.3	20.0	81	80
TOT	0	12	67	110	115	49	78	353

## FEBRUARY

PERIOD: (PRIMARY) 1908-1970  
(OVER-ALL) 1858-1970

AREA 0013 SPENCER GULF  
35.25 136.8E

TABLE 17

PCT FREQ OF AIR TEMPERATURE (DEG F) AND THE OCCURRENCE OF FOG (WITHOUT PRECIPITATION)  
VS AIR-SEA TEMPERATURE DIFFERENCE (DEG F)

AIR-SEA TMP DIF	57 60	61 64	65 68	69 72	73 76	77 80	81 84	TOT	N FOG	WD FOG
11/13	.0	.0	.2	.0	.2	.5	.3	7	.2	1.0
9/10	.0	.0	.0	.0	.7	.7	1.0	14	.3	2.0
7/8	.0	.2	.0	.5	.9	.7	.2	14	.5	1.9
6	.0	.0	.3	.2	.5	.0	.3	8	.2	1.2
5	.0	.0	.2	2.2	.5	.2	.0	18	.0	3.1
4	.0	.8	.5	1.0	.9	.0	.0	17	.0	2.9
3	.2	.3	1.2	2.6	.3	.2	.2	29	.0	4.9
2	.0	.5	1.7	2.0	1.4	.2	.0	34	.2	5.6
1	.0	.7	4.8	2.0	.0	.0	.0	44	.3	7.2
0	.0	3.7	6.0	2.9	.0	.0	.0	74	.2	12.4
-1	1.0	6.0	5.1	1.2	.0	.0	.0	78	.5	12.8
-2	1.0	6.8	5.8	.5	.0	.0	.0	83	.5	13.6
-3	3.6	4.9	1.7	.3	.2	.0	.0	53	.2	10.6
-4	1.5	5.3	1.4	.5	.0	.0	.0	51	.2	8.5
-5	1.0	2.6	1.5	.0	.0	.0	.0	30	.2	4.9
-6	.5	1.5	.3	.0	.0	.0	.0	14	.2	2.2
-7/-8	.9	.3	.2	.0	.0	.0	.0	8	.0	1.4
-9/-10	.2	.0	.0	.0	.0	.0	.0	1	.0	.2
TOTAL	58	196	181	94	32	14	12	587	21	500
PCT	9.9	33.4	30.8	16.0	5.5	2.4	2.0	100.0	3.6	96.4

PERIOD: (OVER-ALL) 1963-1970

TABLE 18

PCT FREQ OF WIND SPEED (KTS) AND DIRECTION VERSUS SEA HEIGHTS (FT)

HGT	1-3	4-10	11-21	22-33	34-47	48+	PCT	NE	1-3	4-10	11-21	22-33	34-47	48+	PCT
<1	.5	.0	.0	.0	.0	.0	.5	.6	.0	.0	.0	.0	.0	.0	1.2
1-2	.0	.0	.0	.0	.0	.0	.0	.0	2.0	.0	.0	.0	.0	.0	2.0
3-4	.0	1.2	.5	.0	.0	.0	1.7	.0	.2	.0	.0	.0	.0	.0	.2
5-6	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
7	.0	.0	.0	.0	.0	.0	.0	.6	.0	.0	.0	.6	.0	.0	1.2
8-9	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
10-11	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
12	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
13-16	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
17-19	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
20-22	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
23-25	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
26-32	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
33-40	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
41-48	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
49-60	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
61-70	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
71-86	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
87+	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
TOT PCT	.5	1.2	.5	.0	.0	.0	2.1	1.2	2.7	.0	.6	.0	.0	.0	4.6

HGT	1-3	4-10	11-21	22-33	34-47	48+	PCT	SE	1-3	4-10	11-21	22-33	34-47	48+	PCT
<1	.0	1.2	.0	.0	.0	.0	1.2	1.2	1.4	.0	.0	.0	.0	.0	2.6
1-2	.0	3.2	.0	.0	.0	.0	3.2	.0	5.0	1.2	.0	.0	.0	.0	6.9
3-4	.0	1.5	1.2	.0	.0	.0	2.7	.0	7.0	5.8	.6	.0	.0	.0	13.4
5-6	.0	.0	2.1	.5	.0	.0	2.6	.0	.2	2.9	2.0	.0	.0	.0	5.0
7	.0	.0	.6	.0	.0	.0	.6	.0	.0	3.7	.6	.0	.0	.0	4.3
8-9	.0	.0	.0	.0	.0	.0	.0	.0	.0	.6	1.2	.0	.0	.0	1.8
10-11	.0	.0	.0	.9	.0	.0	.9	.0	.0	.0	.9	.0	.0	.0	.9
12	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
13-16	.0	.0	.0	.6	.0	.0	.6	.0	.0	.0	.0	.0	.0	.0	.0
17-19	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
20-22	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
23-25	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
26-32	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
33-40	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
41-48	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
49-60	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
61-70	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
71-86	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
87+	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
TOT PCT	.0	5.9	4.0	2.0	.0	.0	11.9	1.2	14.2	14.2	5.3	.0	.0	.0	34.9

PERIOD: (OVER-ALL) 1963-1970

FEBRUARY

AREA 0013 SPENCER GULF  
35.25 136.8E

TABLE 18 (CONT)

PCT FREQ OF WIND SPEED (KTS) AND DIRECTION VERSUS SEA HEIGHTS (FT)

HGT	S							PCT	SW							PCT
	1-3	4-10	11-21	22-33	34-47	48+			1-3	4-10	11-21	22-33	34-47	48+		
<1	.0	.5	.0	.0	.0	.0	1.1	.0	.0	1.8	.0	.0	.0	.0	.0	1.8
1-2	.0	3.8	2.4	.0	.0	.0	6.3	.0	.0	3.7	.2	.0	.0	.0	.0	3.8
3-4	.0	5.6	5.8	1.2	.0	.0	12.7	.0	.0	.9	1.8	.0	.0	.0	.0	2.7
5-6	.0	.5	6.4	1.2	.0	.0	3.1	.0	.0	.8	.8	.0	.0	.0	.0	1.5
7	.0	.0	1.8	.0	.0	.0	1.8	.0	.0	.0	.0	.0	.0	.0	.0	.0
8-9	.0	.0	.0	.6	.0	.0	.6	.0	.0	.0	.0	.0	.0	.0	.0	.0
10-11	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
12	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
13-16	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
17-19	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
20-22	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
23-25	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
26-32	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
33-40	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
41-48	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
49-60	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
61-70	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
71-86	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
87+	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
TOT PCT	.6	10.4	16.5	3.0	.0	.0	30.5	.0	.0	7.2	2.7	.0	.0	.0	.0	9.9

HGT	W							PCT	NW							PCT	TOTAL PCT
	1-3	4-10	11-21	22-33	34-47	48+			1-3	4-10	11-21	22-33	34-47	48+			
<1	.0	.0	.0	.0	.0	.0	.0	.0	.2	.0	.0	.0	.0	.0	.0	.2	
1-2	.0	.0	.5	.0	.0	.0	.5	.0	.0	.0	.0	.0	.0	.0	.0	.0	
3-4	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.8	.0	.0	.0	.0	.8	
5-6	.0	.5	.0	.0	.0	.0	.5	.0	.0	.0	.0	.0	.0	.0	.0	.0	
7	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
8-9	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
10-11	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
12	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
13-16	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
17-19	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
20-22	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
23-25	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
26-32	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
33-40	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
41-48	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
49-60	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
61-70	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
71-86	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
87+	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
TOT PCT	.0	.5	.5	.0	.0	.0	.9	.0	.2	.0	.8	.0	.0	.0	.0	.9	95.7

WIND SPEED (KTS) VS SEA HEIGHT (FT)

HGT	0-3	4-10	11-21	22-33	34-47	48+	PCT	TOT OBS
<1	9.5	5.4	.0	.0	.0	.0	14.9	
1-2	.0	17.9	4.2	.0	.0	.0	22.0	
3-4	.0	16.1	15.5	1.8	.0	.0	33.3	
5-6	.0	1.8	11.9	3.6	.0	.0	17.3	
7	.6	.0	6.0	1.2	.0	.0	7.7	
8-9	.0	.0	.6	1.8	.0	.0	2.4	
10-11	.0	.0	.0	1.8	.0	.0	1.8	
12	.0	.0	.0	.0	.0	.0	.0	
13-16	.0	.0	.0	.6	.0	.0	.6	
17-19	.0	.0	.0	.0	.0	.0	.0	
20-22	.0	.0	.0	.0	.0	.0	.0	
23-25	.0	.0	.0	.0	.0	.0	.0	
26-32	.0	.0	.0	.0	.0	.0	.0	
33-40	.0	.0	.0	.0	.0	.0	.0	
41-48	.0	.0	.0	.0	.0	.0	.0	
49-60	.0	.0	.0	.0	.0	.0	.0	
61-70	.0	.0	.0	.0	.0	.0	.0	
71-86	.0	.0	.0	.0	.0	.0	.0	
87+	.0	.0	.0	.0	.0	.0	.0	
TOT PCT	10.1	41.1	38.1	10.7	.0	.0	100.0	168

PERIOD: (OVER-ALL) 1949-1970

TABLE 19

PERCENT FREQUENCY OF WAVE HEIGHT (FT) VS WAVE PERIOD (SECONDS)

PERIOD (SEC)	<1	1-2	3-4	5-6	7	8-9	10-11	12	13-16	17-19	20-22	23-25	26-32	33-40	41-48	49-60	61-70	71-86	87+	TOTAL	MEAN HGT
<6	2.9	13.5	10.1	6.3	1.9	.0	1.4	.0	.5	.5	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	77
6-7	.0	.5	5.8	4.8	6.3	2.9	1.0	1.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	46
8-9	.0	.0	.0	6.8	7.2	3.9	1.4	.5	.5	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	42
10-11	.0	1.4	1.4	1.9	3.9	.5	1.0	1.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	23
12-13	.0	.0	.0	.5	.0	.5	.5	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	3
>13	.0	.0	.0	.0	.0	.5	.0	.0	.5	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	2
INDFT	2.9	.0	1.9	.0	.5	.0	.5	.0	1.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	14
TOTAL	12	32	40	42	41	17	12	5	5	1	0	0	0	0	0	0	0	0	0	207	5
PCT	5.8	15.5	19.3	20.3	19.8	8.2	5.8	2.4	2.4	.5	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	100.0

PERIOD: (PRIMARY) 1909-1969  
(OVER-ALL) 1863-1969

MARCH

AREA 0013 SPENCER GULF  
35.15 136.9E

TABLE 1

PERCENT FREQUENCY OF WEATHER OCCURRENCE BY WIND DIRECTION

WIND DIR	PRECIPITATION TYPE							OTHER WEATHER PHENOMENA							
	RAIN	RAIN SHWR	DRZL	FRZG PCPN	SNOW	OTHER FRZN PCPN	HAIL	PCPN AT DB TIME	PCPN PAST HOUR	THDR LTNG	FOG WD PCPN	FOG WD PCPN PAST HR	SMOKE HAZE	SPRAY BLWG DUST	NO SIG WEA
N	.0	3.6	.0	.0	.0	.0	.0	3.6	.0	.0	9.1	.0	9.1	.0	78.2
NE	3.7	.0	.0	.0	.0	.0	.0	3.7	.0	1.9	1.9	.0	4.7	.0	87.9
E	.0	.0	1.4	.0	.0	.0	.0	1.4	.0	.0	2.2	.0	.0	.0	96.4
SE	2.2	3.3	.1	.0	.0	.0	.0	5.7	.0	1.1	4.7	.0	.0	.0	89.2
S	2.1	3.6	1.2	.0	.0	.0	.0	6.9	.0	1.1	4.5	.0	.0	.0	88.5
SW	2.6	.9	1.3	.0	.0	.0	.0	4.8	.9	2.6	6.2	.0	1.8	.0	83.7
W	.0	2.6	2.0	.0	.0	.0	.0	4.6	2.0	.0	8.2	.0	2.0	.0	83.2
NW	5.4	.0	.0	.0	.0	.0	.0	5.4	.0	.0	5.4	.0	.0	.0	89.2
VAR	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
CALM	7.7	.0	.0	.0	.0	.0	.0	7.7	.0	7.7	.0	.0	.0	.0	84.6
TOT PCT	2.1	2.3	.8	.0	.0	.0	.0	5.2	.3	1.3	4.8	.0	1.1	.0	87.9
TOT OBS:	711														

TABLE 2

PERCENT FREQUENCY OF WEATHER OCCURRENCE BY HOUR

HOUR (GMT)	PRECIPITATION TYPE							OTHER WEATHER PHENOMENA							
	RAIN	RAIN SHWR	DRZL	FRZG PCPN	SNOW	OTHER FRZN PCPN	HAIL	PCPN AT DB TIME	PCPN PAST HOUR	THDR LTNG	FOG WD PCPN	FOG WD PCPN PAST HR	SMOKE HAZE	SPRAY BLWG DUST	NO SIG WEA
00003	2.3	1.7	.0	.0	.0	.0	.0	4.0	.0	.6	7.4	.0	2.9	.0	85.7
06009	2.0	1.3	.7	.0	.0	.0	.0	4.0	.7	.0	4.0	.0	.7	.0	90.7
12015	2.6	2.6	1.5	.0	.0	.0	.0	6.7	.4	2.2	4.1	.0	1.5	.0	85.9
18021	1.2	2.3	.6	.0	.0	.0	.0	4.1	.6	1.2	4.7	.0	1.8	.0	88.3
TOT PCT	2.1	2.1	.8	.0	.0	.0	.0	5.0	.4	1.2	5.0	.0	1.7	.0	87.4
TOT OBS:	767														

TABLE 3

PERCENTAGE FREQUENCY OF WIND DIRECTION BY SPEED AND BY HOUR

WIND DIR	WIND SPEED (KNOTS)							TOTAL OBS	PCT FREQ	MEAN SPD	HOUR (GMT)							
	0-3	4-10	11-21	22-33	34-47	48+					00	03	06	09	12	15	18	21
N	1.1	3.1	.6	.0	.0	.0		4.8	6.8		8.4	5.0	5.1	2.8	3.3	2.0	6.7	.0
NE	1.0	4.8	.9	.1	.0	.0		6.8	7.3		10.9	6.9	5.3	13.9	2.7	6.8	8.7	10.5
E	1.2	6.2	2.1	.1	.0	.0		9.6	8.4		12.3	11.0	7.3	.0	6.3	10.4	11.7	14.5
SE	1.5	12.4	8.7	1.1	.2	.0		23.9	11.0		21.0	21.8	17.3	13.9	25.3	29.9	26.7	25.0
S	1.4	12.4	8.1	1.7	.4	.0		24.0	11.7		21.4	18.4	27.0	25.0	30.2	23.5	21.4	21.1
SW	1.0	8.5	5.8	1.2	.4	.0		16.8	11.8		14.3	17.7	24.2	25.0	19.0	12.4	13.3	7.3
W	.7	2.8	2.6	.9	.1	.0		7.0	12.5		5.9	9.3	8.4	13.9	5.3	6.6	6.5	7.3
NW	.3	2.2	.7	.1	.0	.0		3.3	8.9		4.0	4.5	4.0	5.6	1.5	3.8	1.5	13.2
VAR	.0	.0	.0	.0	.0	.0		.0	.0		.0	.0	.0	.0	.0	.0	.0	.0
CALM	3.8							3.8	.0		1.9	5.3	1.4	.0	6.2	4.5	3.1	.0
TOT OBS	162	719	405	70	16	0	1372		10.2		161	209	212	18	273	221	259	19
TOT PCT	11.8	52.4	29.5	5.1	1.2	.0		100.0			100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0

TABLE 3A

WIND DIR	WIND SPEED (KNOTS)					TOTAL OBS	PCT FREQ	MEAN SPD	HOUR (GMT)				
	0-6	7-16	17-27	28-40	41+				00	03	06	09	12
N	2.7	1.9	.3	.0	.0			4.8	6.8		6.5	4.9	2.7
NE	3.4	3.1	.3	.0	.0			6.8	7.3		8.6	6.0	4.6
E	3.9	5.1	.5	.0	.0			9.6	8.4		11.6	6.7	8.1
SE	5.6	13.9	3.6	.6	.1			23.9	11.0		21.4	17.1	27.3
S	5.8	12.6	4.6	.8	.2			24.0	11.7		19.7	26.8	27.2
SW	4.3	9.0	2.5	1.1	.0			16.8	11.8		16.2	24.2	16.0
W	1.9	3.1	1.7	.4	.0			7.0	12.5		7.8	8.8	5.9
NW	1.6	1.1	.5	.0	.0			3.3	8.9		4.3	4.1	2.6
VAR	.0	.0	.0	.0	.0			.0	.0		.0	.0	.0
CALM	3.8							3.8	.0		3.8	1.3	5.5
TOT OBS	453	683	191	40	5	1372		10.2			370	230	494
TOT PCT	33.0	49.8	13.9	2.9	.4			100.0			100.0	100.0	100.0

PERIOD: (PRIMARY) 1909-1969  
(OVER-ALL) 1863-1969

MARCH

AREA 0013 SPENCER GULF  
35.15 136.9F

TABLE 4

PERCENTAGE FREQUENCY OF WIND SPEED BY HOUR (GMT)

HOUR	CALM	1-3	4-10	WIND SPEED (KNOTS)			48+	MEAN	PCT FREQ	TOTAL OBS
				11-21	22-33	34-47				
0000	3.8	9.2	54.3	25.1	5.7	1.9	.0	10.1	100.0	370
0600	1.3	10.0	48.7	34.3	5.2	.4	.0	10.3	100.0	230
1200	5.5	4.9	53.2	31.0	4.9	.6	.0	10.3	100.0	494
1800	2.9	10.4	51.4	28.8	4.7	1.8	.0	10.3	100.0	278
TOT	52	110	719	405	70	16	0	10.2		1272
PCT	3.8	8.0	52.4	29.5	5.1	1.2	.0	100.0		

TABLE 5

PCT FREQ OF TOTAL CLOUD AMOUNT (EIGHTHS)  
BY WIND DIRECTION

WIND DIR	0-2	3-4	5-7	8 & OBSCD	TOTAL OBS	MEAN CLOUD COVER
N	1.3	.4	.4	1.3	4.6	
NE	1.8	2.2	.5	.0	2.6	
E	7.5	1.6	1.6	.4	2.2	
SE	14.7	2.6	3.5	3.0	2.6	
S	10.1	4.4	6.3	5.3	4.0	
SW	4.0	4.7	5.2	2.8	4.6	
W	.3	2.0	4.9	1.3	5.4	
NW	.5	.4	1.4	.4	5.1	
VAR	.0	.0	.0	.0	.0	
CALM	1.7	.4	.0	.8	2.8	
TOT OBS	99	45	56	34	236	3.6
TOT PCT	41.9	19.1	23.7	15.3	100.0	

TABLE 6

PERCENTAGE FREQUENCY OF CEILING HEIGHTS (FT) NH >4/8  
AND OCCURRENCE OF NH <5/8 BY WIND DIRECTION

	000 149	150 299	300 599	600 999	1000 1999	2000 3499	3500 4999	5000 6499	6500 7999	8000+	NH <5/8 ANY HGT	TOTAL OBS
N	.0	.0	.0	.4	.0	.4	.0	.4	.0	.0	2.3	
NE	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	4.6	
E	.0	.0	.0	.0	.6	.8	.2	.0	.0	.0	9.4	
SE	.0	.0	.4	.4	2.4	1.4	1.2	.0	.0	.0	18.0	
S	.0	.0	.0	.3	6.0	2.1	.7	.0	.8	.0	15.0	
SW	.0	.0	.0	1.1	3.3	1.6	.4	.0	.4	.0	9.9	
W	.0	.0	.0	.3	1.2	.8	.4	.0	.4	.0	5.3	
NW	.0	.0	.0	.4	.0	.4	.0	.0	.0	.0	1.9	
VAR	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
CALM	.0	.0	.0	.0	.8	.0	.0	.0	.0	.0	2.1	
TOT OBS	0	0	1	7	34	18	7	1	4	0	164	236
TOT PCT	.0	.0	.4	3.0	14.4	7.6	3.0	.4	1.7	.0	69.5	100.0

TABLE 7

CUMULATIVE PCT FREQ OF SIMULTANEOUS OCCURRENCE  
OF CEILING HEIGHT (NH >4/8) AND VSBY (NM)

CEILING (FEET)	VSBY (NM)							
	>10	>5	>2	>1	>1/2	>1/4	>50YD	>0
>5500	1.6	1.6	1.6	1.6	1.6	1.6	1.6	1.6
>5000	2.0	2.0	2.0	2.0	2.0	2.0	2.0	2.0
>4500	4.5	4.9	4.9	4.9	4.9	4.9	4.9	4.9
>4000	11.9	12.3	12.3	12.3	12.3	12.3	12.3	12.3
>3500	24.6	26.2	26.6	26.6	26.6	26.6	26.6	26.6
>3000	27.0	29.1	29.5	29.5	29.5	29.5	29.5	29.5
>2500	27.5	29.5	29.9	29.9	29.9	29.9	29.9	29.9
>2000	27.5	29.5	29.9	29.9	29.9	29.9	29.9	29.9
>1500	27.5	29.5	29.9	29.9	29.9	29.9	29.9	29.9
>1000	27.5	29.5	29.9	30.3	30.3	30.3	30.3	30.3
>500	27.5	29.5	29.9	30.3	30.3	30.3	30.3	30.3
>0	27.5	29.5	29.9	30.3	30.3	30.3	30.3	30.3
TOTAL	67	72	73	74	74	74	74	74

TOTAL NUMBER OF OBS: 244

PCT FREQ NH <5/8: 69.7

TABLE 7A

PERCENTAGE FREQ OF LOW CLOUDS (EIGHTHS)

	0	1	2	3	4	5	6	7	8	OBSCD	TOTAL OBS
	23.7	18.0	10.4	9.4	8.6	6.1	5.4	7.2	10.8	.4	278



PERIOD: (PRIMARY) 1909-1969  
(OVER-ALL) 1863-1969

MARCH

AREA 0013 SPENCER GULF  
35.15 136.9E

TABLE 8

PERCENT FREQ OF WIND DIRECTION VS OCCURRENCE OR NON-OCCURRENCE OF  
PRECIPITATION WITH VARYING VALUES OF VISIBILITY

VSBY (NM)		N	NE	E	SE	S	SW	W	NW	VAR	CALM	PCT	TOTAL OBS
<1/2	PCP	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
	NO PCP	.0	.0	.1	.1	.1	.1	.0	.0	.0	.0	.0	.4
	TOT %	.0	.0	.1	.1	.1	.1	.0	.0	.0	.0	.0	.4
1/2<1	PCP	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
	NO PCP	.4	.2	.1	1.1	1.1	1.0	.6	.1	.0	.0	.0	4.6
	TOT %	.4	.2	.1	1.1	1.1	1.0	.6	.1	.0	.0	.0	4.6
1<2	PCP	.0	.0	.0	.0	.3	.0	.0	.0	.0	.0	.0	.3
	NO PCP	.2	.4	.0	.0	.0	.0	.0	.0	.0	.0	.0	.6
	TOT %	.2	.4	.0	.0	.3	.0	.0	.0	.0	.0	.0	.6
2<5	PCP	.0	.0	.0	.1	.0	.0	.0	.0	.0	.0	.0	.1
	NO PCP	.0	.0	.0	.0	.1	.0	.0	.0	.0	.0	.0	.1
	TOT %	.0	.0	.0	.1	.1	.0	.0	.0	.0	.0	.0	.3
5<10	PCP	.0	.3	.1	1.1	1.2	.7	.1	.0	.0	.0	.0	3.5
	NO PCP	1.2	3.4	3.2	10.5	9.9	7.0	2.5	1.1	.0	.0	.4	38.5
	TOT %	1.2	3.7	3.4	11.6	10.8	7.7	2.5	1.1	.0	.0	.4	42.1
10+	PCP	.1	.0	.0	.2	.4	.1	.2	.1	.0	.1	.1	1.3
	NO PCP	1.9	3.3	6.2	12.1	13.9	7.1	3.6	1.3	.0	1.3	50.5	
	TOT %	2.0	3.3	6.2	12.3	14.2	7.1	3.8	1.4	.0	1.4	51.8	
TOT OBS													711
TOT PCT		3.9	7.6	9.7	25.2	26.3	16.0	6.9	2.6	.0	1.8	100.0	

TABLE 9

PERCENT FREQ OF WIND DIRECTION VS WIND SPEED  
WITH VARYING VALUES OF VISIBILITY

VSBY (NM)	SPD KTS	N	NE	E	SE	S	SW	W	NW	VAR	CALM	PCT	TOTAL OBS
<1/2	0-3	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
	4-10	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
	11-21	.0	.0	.1	.1	.1	.0	.0	.0	.0	.0	.0	.0
	22+	.0	.0	.0	.0	.0	.1	.0	.0	.0	.0	.0	.1
	TOT %	.0	.0	.1	.1	.1	.1	.0	.0	.0	.0	.0	.3
1/2<1	0-3	.0	.0	.0	.1	.0	.1	.1	.0	.0	.0	.0	.3
	4-10	.1	.0	.1	.5	.3	.1	.3	.1	.0	.0	.0	1.5
	11-21	.2	.1	.0	.3	.6	.6	.0	.1	.0	.0	.0	1.8
	22+	.0	.0	.1	.0	.0	.0	.0	.0	.0	.0	.0	.1
	TOT %	.3	.2	.1	.9	.9	.8	.5	.1	.0	.0	.0	3.8
1<2	0-3	.2	.1	.0	.0	.0	.0	.0	.0	.0	.0	.0	.2
	4-10	.0	.2	.0	.0	.1	.0	.0	.0	.0	.0	.0	.3
	11-21	.0	.0	.0	.0	.1	.0	.0	.0	.0	.0	.0	.1
	22+	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
	TOT %	.2	.3	.0	.0	.2	.0	.0	.0	.0	.0	.0	.7
2<5	0-3	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.1	.1
	4-10	.0	.0	.0	.1	.1	.0	.0	.0	.0	.0	.0	.2
	11-21	.0	.0	.0	.2	.0	.0	.0	.0	.0	.0	.0	.2
	22+	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
	TOT %	.0	.0	.0	.3	.1	.0	.0	.0	.0	.0	.1	.6
5<10	0-3	.2	.5	.3	.5	.5	.2	.1	.1	.0	.5	.5	2.8
	4-10	.7	2.4	1.8	5.2	3.9	3.6	1.0	.7	.0	.0	.0	19.3
	11-21	.1	.2	.5	3.4	3.6	2.8	.9	.1	.0	.0	.0	11.7
	22+	.0	.0	.1	.7	1.0	.3	.4	.1	.0	.0	.0	2.8
	TOT %	1.0	3.1	2.8	9.8	9.0	7.0	2.4	1.0	.0	.5	.5	36.6
10+	0-3	.5	.5	.7	1.1	1.2	.8	.3	.1	.0	2.8	7.9	
	4-10	1.7	2.6	4.3	6.5	8.9	4.1	1.6	1.3	.0	.0	.0	30.8
	11-21	.0	.6	1.5	4.9	4.7	3.3	1.6	.2	.0	.0	.0	16.8
	22+	.0	.0	.0	.4	.5	.8	.7	.1	.0	.0	.0	2.5
	TOT %	2.2	3.7	6.5	12.9	15.3	8.9	4.1	1.7	.0	2.8	58.0	
TOT OBS													870
TOT PCT		3.7	7.3	9.4	24.1	25.6	16.8	7.0	2.8	.0	3.3	100.0	

## MARCH

PERIOD: (PRIMARY) 1909-1969  
(OVER-ALL) 1863-1969

AREA 0013 SPENCER GULF  
35.15 136.9E

TABLE 10

PERCENT FREQUENCY OF CEILING HEIGHTS (FEET, NH >4/8) AND  
OCCURRENCE OF NH <5/8 BY HOUR

HR	000	150	300	400	1000	2000	3500	5000	6500	8000+	TOTAL	NH <5/8 ANY HGT	TOTAL OBS
(GMT)	149	299	599	999	1999	3499	4999	6499	7999				
00003	.0	.0	.0	2.2	11.1	13.3	8.9	2.2	.0	.0	37.8	62.2	45
06009	.0	.0	.0	3.1	10.9	7.8	1.6	.0	1.6	.0	25.0	75.0	64
12015	1.1	.0	.0	2.2	12.4	2.2	1.1	.0	1.1	.0	20.2	79.8	89
18021	.0	.0	1.4	2.8	16.9	7.0	1.4	.0	2.8	.0	32.4	67.6	71
TOT	1	0	1	7	35	18	7	1	4	0	74	195	269
PCT	.4	.0	.4	2.6	13.0	6.7	2.6	.4	1.5	.0	27.5	72.5	100.0

TABLE 11

PERCENT FREQUENCY VSRY (NM) BY HOUR

HR	<1/2	1/2<1	1<2	2<5	5<10	10+	TOTAL
(GMT)							OBS
00003	.5	6.7	1.9	1.0	43.1	46.9	209
06009	.0	3.5	1.2	1.2	37.0	57.2	173
12015	.3	2.6	1.2	.6	38.4	57.0	344
18021	.5	3.5	1.0	.0	31.2	63.9	202
TOT	3	36	12	6	349	522	928
PCT	.3	3.9	1.3	.6	37.6	56.3	100.0

TABLE 12

CUMULATIVE PCT FREQ OF RANGES OF VSRY (NM) AND/OR  
CEILING HGT (FEET, NH >4/8), BY HOUR

HR	<150	<600	<1000	1000+	NH <5/8	TOTAL
(GMT)	<50YD	<1	<5	AND 5+	AND 5+	OBS
00003	.0	.0	2.6	42.1	55.3	38
06009	.0	.0	5.4	23.2	71.4	56
12015	1.2	1.2	3.6	18.1	78.3	89
18021	.0	1.5	4.5	29.9	65.7	67
TOT	1	2	10	64	170	244
PCT	.4	.8	4.1	26.2	69.7	100.0

TABLE 13

PERCENT FREQUENCY OF RELATIVE HUMIDITY BY TEMP

TEMP F	0-29	30-39	40-49	50-59	60-69	70-79	80-89	90-100	TOTAL	PCT
									OBS	FREQ
80/84	.0	.0	.3	.0	.0	.5	.0	.0	3	.8
75/79	.0	.0	.3	.5	.3	1.0	.3	.0	9	2.3
70/74	.0	.0	.0	.3	2.8	2.3	1.5	.8	30	7.7
65/69	.0	.0	.3	.8	1.8	6.7	10.8	5.1	107	27.5
60/64	.0	.0	.3	1.3	13.6	16.7	15.9	4.9	205	52.7
55/59	.0	.0	.0	.0	1.5	3.1	3.9	.5	35	9.0
TOTAL	0	0	4	11	78	126	126	44	389	100.0
PCT	.0	.0	1.0	2.8	20.1	32.4	32.4	11.3		

TABLE 14

PERCENT FREQUENCY OF WIND DIRECTION BY TEMP

N	NE	E	SE	S	SW	W	NW	VAR	CALM
.0	.0	.0	.0	.3	.0	.0	.0	.0	.5
.3	.4	.5	.1	.0	.0	.1	.4	.0	.5
1.2	1.9	1.2	.8	1.2	.4	.6	.0	.0	.5
1.0	3.9	2.8	5.3	6.0	4.6	2.4	.6	.0	1.0
1.1	.3	5.8	16.1	17.4	8.4	2.0	.8	.0	.8
.0	.0	.6	1.8	3.1	2.8	.6	.0	.0	.0
3.5	6.5	11.0	24.1	28.0	16.1	5.8	1.7	.0	3.3

TABLE 15

MEANS, EXTREMES AND PERCENTILES OF TEMP (DEG F) BY HOUR

HR	MAX	99%	95%	50%	5%	1%	MIN	MEAN	TOTAL
(GMT)									OBS
00003	82	79	73	65	59	57	56	65.8	363
06009	81	79	75	67	61	60	55	67.2	220
12015	81	78	72	64	59	57	54	64.5	567
18021	79	74	71	63	58	55	54	63.3	281
TOT	82	78	73	64	59	57	54	65.0	1371

TABLE 16

PERCENT FREQUENCY OF RELATIVE HUMIDITY BY HOUR

HR	0-29	30-59	60-69	70-79	80-89	90-100	MEAN	TOTAL
(GMT)								OBS
00003	.0	6.8	22.7	36.4	23.9	10.2	75	88
06009	.0	3.5	33.7	29.7	20.9	15.1	75	86
12015	.0	1.4	14.9	30.5	42.6	10.6	79	141
18021	.0	5.0	11.0	34.0	34.0	16.0	80	100
TOT	0	16	81	132	133	53	78	415

PERIOD: (PRIMARY) 1909-1969  
(OVER-ALL) 1863-1969

MARCH

AREA 0013 SPENCER GULF  
35.15 136.9E

TABLE 17

PCT FREQ OF AIR TEMPERATURE (DEG F) AND THE OCCURRENCE OF FOG (WITHOUT PRECIPITATION)  
VS AIR-SEA TEMPERATURE DIFFERENCE (DEG F)

AIR-SEA TMP DIF	53 56	57 60	61 64	65 68	69 72	73 76	77 80	81 84	TOT	W FOG	WD FOG
14/16	.0	.0	.0	.0	.2	.0	.0	.0	1	.0	.2
11/13	.0	.0	.0	.0	.2	.0	.2	.0	2	.0	.3
9/10	.0	.0	.0	.0	.0	.2	.5	.0	4	.0	.6
7/8	.0	.0	.2	.0	.8	.3	.2	.2	10	.0	1.5
6	.0	.0	.2	.0	.3	1.1	.6	.0	14	.5	1.7
5	.0	.0	.2	.2	.8	.9	.3	.0	15	.2	2.2
4	.0	.0	.0	.2	1.5	.6	.3	.0	17	.2	2.5
3	.0	.0	.2	.8	2.0	.8	.0	.0	24	.2	3.5
2	.0	.9	1.4	3.4	2.8	.9	.0	.0	61	.5	8.8
1	.0	.3	2.3	5.5	1.7	.0	.0	.0	64	.5	9.2
0	.2	1.5	4.8	4.2	1.7	.2	.0	.0	81	.6	11.8
-1	.0	.8	6.3	3.7	.6	.0	.0	.0	74	.9	10.5
-2	.0	2.2	7.2	3.2	.5	.2	.0	.0	86	.8	12.5
-3	.0	4.2	5.8	1.1	.2	.0	.0	.0	73	.3	10.9
-4	.3	2.6	4.0	.9	.3	.0	.0	.0	53	.3	7.8
-5	.2	1.7	2.5	.3	.2	.0	.0	.0	31	.2	4.6
-6	.0	1.1	1.8	.0	.0	.0	.0	.0	19	.2	2.8
-7/-8	.2	.9	.9	.2	.0	.0	.0	.0	14	.0	2.2
-9/-10	.2	.5	.2	.0	.0	.0	.0	.0	5	.0	.8
-11/-13	.0	.2	.0	.2	.0	.0	.0	.0	2	.0	.3
TOTAL	6	109	246	154	88	33	13	1	650	35	615
PCT	.9	16.8	37.8	23.7	13.5	5.1	2.0	.2	100.0	5.4	94.6

PERIOD: (OVER-ALL) 1963-1969

TABLE 18

PCT FREQ OF WIND SPEED (KTS) AND DIRECTION VERSUS SEA HEIGHTS (FT)

HGT	1-3	4-10	11-21	22-33	34-47	48+	PCT	1-3	4-10	11-21	22-33	34-47	48+	PCT
<1	.0	.5	.0	.0	.0	.0	.5	.0	.1	.0	.0	.0	.0	.1
1-2	.0	2.1	.0	.0	.0	.0	2.1	.0	3.0	1.1	.0	.0	.0	4.1
3-4	.0	1.0	.0	.0	.0	.0	1.0	.0	1.9	.5	.0	.0	.0	2.5
5-6	.0	.5	.0	.0	.0	.0	.5	.0	.0	.0	.0	.0	.0	.0
7	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
8-9	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
10-11	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
12	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
13-16	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
17-19	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
20-22	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
23-25	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
26-32	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
33-40	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
41-48	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
49-60	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
61-70	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
71-86	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
87+	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
TOT PCT	.0	4.1	.0	.0	.0	.0	4.1	.0	5.1	1.6	.0	.0	.0	6.7

HGT	1-3	4-10	11-21	22-33	34-47	48+	PCT	1-3	4-10	11-21	22-33	34-47	48+	PCT
<1	.0	2.1	.0	.0	.0	.0	2.1	1.1	.8	.0	.0	.0	.0	1.9
1-2	.0	1.9	.4	.0	.0	.0	2.3	.5	4.1	1.2	.0	.0	.0	5.9
3-4	.0	1.5	2.1	.0	.0	.0	3.6	.0	5.6	4.8	.0	.0	.0	10.4
5-6	.0	.0	.4	.0	.0	.0	.4	.0	.0	3.2	.0	.0	.0	3.2
7	.0	.0	.0	.0	.0	.0	.0	.0	.0	.5	.0	.0	.0	.5
8-9	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
10-11	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
12	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
13-16	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
17-19	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
20-22	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
23-25	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
26-32	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
33-40	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
41-48	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
49-60	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
61-70	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
71-86	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
87+	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
TOT PCT	.0	5.5	2.9	.0	.0	.0	8.4	1.4	10.6	9.8	.0	.0	.0	22.0

PERIOD: (OVER-ALL) 1963-1969

MARCH

AREA 0013 SPENCER GULF  
35.15 136.9E

TABLE 18 (CONT)

PCT FREQ OF WIND SPEED (KTS) AND DIRECTION VERSUS SEA HEIGHTS (FT)

HGT	S						PCT	SW						PCT
	1-3	4-10	11-21	22-33	34-47	48+		1-3	4-10	11-21	22-33	34-47	48+	
<1	.0	4.5	.0	.0	.0	.0	4.5	.0	1.2	.0	.0	.0	.0	1.2
1-2	.0	5.2	1.1	.0	.0	.0	6.3	.0	2.2	.0	.0	.0	.0	2.3
3-4	.0	5.2	4.8	.0	.0	.0	10.0	.0	1.2	3.4	.0	.0	.0	4.7
5-6	.0	.0	6.3	.5	.0	.0	6.9	.0	.5	1.1	1.1	.0	.0	2.7
7	.0	.0	.5	.5	.0	.0	1.1	.0	.0	1.6	.7	.0	.0	2.3
8-9	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
10-11	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
12	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.5	.0	.0	.5
13-16	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
17-19	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
20-22	.0	.0	.0	.0	.0	.0	.0	.0	.0	.5	.0	.0	.0	.5
23-25	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
26-32	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
33-40	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
41-48	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
49-60	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
61-70	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
71-86	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
87+	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
TOT PCT	.0	15.0	12.8	1.1	.0	.0	28.8	.0	5.4	6.7	2.3	.0	.0	14.4

HGT	W						PCT	NW						PCT	TOTAL PCT
	1-3	4-10	11-21	22-33	34-47	48+		1-3	4-10	11-21	22-33	34-47	48+		
<1	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
1-2	.0	.4	.0	.0	.0	.0	.4	.0	.7	.0	.0	.0	.0	.7	.0
3-4	.0	1.5	2.5	.0	.0	.0	4.0	.0	.0	1.1	.0	.0	.0	1.8	.0
5-6	.0	1.1	.5	.0	.0	.0	1.6	.0	.0	.0	.5	.0	.0	.5	.0
7	.0	.0	.5	1.0	.0	.0	1.5	.0	.0	.0	.0	.0	.0	.0	.0
8-9	.0	.0	.5	.0	.0	.0	.5	.0	.0	.0	.0	.0	.0	.0	.0
10-11	.0	.0	.0	.5	.0	.0	.5	.0	.0	.0	.0	.0	.0	.0	.0
12	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
13-16	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
17-19	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
20-22	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
23-25	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
26-32	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
33-40	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
41-48	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
49-60	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
61-70	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
71-86	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
87+	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
TOT PCT	.0	3.0	4.1	1.5	.0	.0	8.7	.0	1.4	1.1	.5	.0	.0	3.0	96.2

WIND SPEED (KTS) VS SEA HEIGHT (FT)

HGT	0-3	4-10	11-21	22-33	34-47	48+	PCT	TOT DBS
<1	5.9	9.1	.0	.0	.0	.0	15.1	
1-2	1.6	19.4	3.8	.0	.0	.0	24.7	
3-4	.0	18.3	18.8	.0	.0	.0	37.1	
5-6	.0	2.2	11.3	2.2	.0	.0	15.6	
7	.0	.0	3.2	2.2	.0	.0	5.4	
8-9	.0	.0	.5	.0	.0	.0	.5	
10-11	.0	.0	.5	.0	.0	.0	.5	
12	.0	.0	.0	.5	.0	.0	.5	
13-16	.0	.0	.0	.0	.0	.0	.0	
17-19	.0	.0	.0	.0	.0	.0	.0	
20-22	.0	.0	.5	.0	.0	.0	.5	
23-25	.0	.0	.0	.0	.0	.0	.0	
26-32	.0	.0	.0	.0	.0	.0	.0	
33-40	.0	.0	.0	.0	.0	.0	.0	
41-48	.0	.0	.0	.0	.0	.0	.0	
49-60	.0	.0	.0	.0	.0	.0	.0	
61-70	.0	.0	.0	.0	.0	.0	.0	
71-86	.0	.0	.0	.0	.0	.0	.0	
87+	.0	.0	.0	.0	.0	.0	.0	
TOT PCT	7.5	48.9	38.2	5.4	.0	.0	100.0	186

PERIOD: (OVER-ALL) 1949-1969

TABLE 19

PERCENT FREQUENCY OF WAVE HEIGHT (FT) VS WAVE PERIOD (SECONDS)

PERIOD (SEC)	<1	1-2	3-4	5-6	7	8-9	10-11	12	13-16	17-19	20-22	23-25	26-32	33-40	41-48	49-60	61-70	71-86	87+	TOTAL	MEAN HGT	
<6	3.3	8.6	12.3	6.1	2.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	79	3
6-7	.0	.8	4.5	5.7	7.4	1.6	.4	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	50	6
8-9	.0	.0	2.5	5.7	3.7	3.3	3.3	2.0	1.6	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	54	7
10-11	.0	.4	.0	.4	4.1	1.2	1.6	.0	.0	.0	.0	.0	.4	.0	.0	.0	.0	.0	.0	.0	20	8
12-13	.0	.0	.8	.4	.8	1.6	.0	.4	1.2	.0	.4	.0	.0	.0	.0	.0	.0	.0	.0	.0	14	9
13-14	.0	.0	.0	.0	.0	.4	1.2	.0	.0	.4	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	5	11
INDET	2.9	.8	1.2	2.5	.4	.0	.4	.0	.4	.0	.4	.0	.0	.0	.0	.0	.0	.0	.0	.0	22	4
TOTAL	15	26	52	51	45	20	17	6	8	1	2	0	1	0	0	0	0	0	0	0	244	6
PCT	6.1	10.7	21.3	20.9	18.4	8.2	7.0	2.5	3.3	.4	.8	.0	.4	.0	.0	.0	.0	.0	.0	.0	100.0	

PERIOD: (PRIMARY) 1910-1969  
(OVER-ALL) 1859-1969

APRIL

AREA 0013 SPENCER GULF  
35.15 136.9E

TABLE 1

PERCENT FREQUENCY OF WEATHER OCCURRENCE BY WIND DIRECTION

WIND DIR	PRECIPITATION TYPE							OTHER WEATHER PHENOMENA							NO SIG WEA
	RAIN	RAIN SHWR	DRZL	FRZG PCPN	SNOW	OTHER FRZN PCPN	HAIL	PCPN AT DB TIME	PCPN PAST HOUR	THOR LTNG	FOG PCPN	FOG WD PCPN PAST HR	SMOKE HAZE	SPRAY BLWG DUST	
N	4.5	2.4	1.6	.0	.0	.0	.0	8.6	1.6	.0	.0	.0	.0	.0	89.8
NE	.4	3.3	.0	.0	.0	.0	.0	3.7	.0	1.6	3.3	.0	.8	.0	90.5
E	1.1	2.8	.0	.0	.0	.0	.0	3.9	.0	2.8	2.2	.0	1.7	.0	89.4
SE	.7	4.3	1.6	.0	.0	.0	.0	6.6	.0	1.0	1.6	.0	.0	.0	90.8
S	1.2	3.0	3.4	.0	.0	.0	.0	7.6	.0	.7	2.4	.0	.7	.0	88.7
SW	4.7	8.2	.4	.0	.0	.0	.0	13.3	1.1	.9	.0	.0	.0	.0	85.6
W	2.4	13.4	2.4	.0	.0	.0	.0	18.2	.9	1.2	.6	.0	.0	.0	79.2
NW	.0	7.5	3.3	.0	.0	.0	.0	10.9	1.7	3.3	.8	.0	5.0	.0	78.2
VAR	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
CALM	.0	.0	.0	.0	.0	.0	.0	.0	.0	6.3	.0	.0	.0	.0	93.8
TOT PCT	1.8	5.4	1.7	.0	.0	.0	.0	8.8	.5	1.4	1.4	.0	.8	.0	87.2
TOT OBS:	784														

TABLE 2

PERCENT FREQUENCY OF WEATHER OCCURRENCE BY HOUR

HOUR (GMT)	PRECIPITATION TYPE							OTHER WEATHER PHENOMENA							NO SIG WEA
	RAIN	RAIN SHWR	DRZL	FRZG PCPN	SNOW	OTHER FRZN PCPN	HAIL	PCPN AT DB TIME	PCPN PAST HOUR	THOR LTNG	FOG PCPN	FOG WD PCPN PAST HR	SMOKE HAZE	SPRAY BLWG DUST	
00003	2.4	4.7	.9	.0	.0	.0	.0	8.1	.0	.5	.9	.0	1.4	.0	89.1
06009	.7	4.3	.7	.0	.0	.0	.0	5.7	.7	.0	1.4	.0	.7	.0	91.4
12015	.7	5.7	1.7	.0	.0	.0	.0	8.1	1.0	1.4	2.4	.0	.7	.0	86.5
18021	4.3	4.8	2.7	.0	.0	.0	.0	11.8	.0	3.2	1.6	.0	.5	.0	83.4
TOT PCT	1.9	5.0	1.6	.0	.0	.0	.0	8.5	.5	1.3	1.7	.0	.8	.0	87.3
TOT OBS:	834														

TABLE 3

PERCENTAGE FREQUENCY OF WIND DIRECTION BY SPEED AND BY HOUR

WIND DIR	0-3	WIND SPEED (KNOTS)					48+	TOTAL OBS	PCT FREQ	MEAN SPD	HOUR (GMT)							
		4-10	11-21	22-33	34-47	00					03	06	09	12	15	18	21	
N	.9	5.2	2.5	.5	.0	.0		9.2	9.6		11.2	12.4	8.5	23.1	6.7	7.9	8.7	3.8
NE	1.3	5.0	2.4	*	.0	.0		8.7	8.4		10.7	15.3	7.8	7.7	5.5	6.8	8.1	3.8
E	1.6	6.6	3.7	.2	.0	.0		12.1	8.9		15.2	14.1	11.4	3.8	7.5	11.7	14.0	7.7
SE	1.1	7.4	6.1	.7	.0	.0		15.3	10.5		14.9	10.8	11.4	26.9	19.5	16.4	16.3	19.2
S	1.9	7.7	4.8	1.2	.0	.0		15.3	10.0		13.6	14.2	15.0	30.8	18.2	16.0	13.7	15.4
SW	.4	5.5	6.5	2.3	.4	.0		15.1	14.3		13.3	12.8	19.2	7.7	17.8	13.9	13.4	23.1
W	.4	4.2	5.3	2.7	.9	.1		13.5	16.4		11.4	12.0	14.7	.0	13.6	15.6	14.2	15.4
NW	.4	3.6	3.0	.4	*	.0		7.5	11.3		6.7	6.5	10.6	.0	4.7	8.6	8.3	11.5
VAR	.0	.0	.0	.0	.0	.0		.0	.0		.0	.0	.0	.0	.0	.0	.0	.0
CALM	3.3							3.3	.0		3.0	1.9	1.5	.0	6.4	3.1	3.3	.0
TOT OBS	159	635	479	114	18	1	1406		11.0		199	209	206	13	265	227	274	13
TOT PCT	11.3	45.2	34.1	8.1	1.3	.1		100.0			100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0

TABLE 3A

WIND DIR	0-6	WIND SPEED (KNOTS)				41+	TOTAL OBS	PCT FREQ	MEAN SPD	HOUR (GMT)			
		7-16	17-27	28-40	00 03					06 09	12 15	18 21	
N	3.1	5.1	.8	.1	.0		9.2	9.6	11.8	9.4	7.3	8.4	
NE	3.7	4.4	.6	.0	.0		8.7	8.4	13.1	7.8	6.1	7.9	
E	4.4	6.7	1.0	.0	.0		12.1	8.9	14.6	11.0	9.5	13.7	
SE	4.5	8.5	2.3	*	.0		15.3	10.5	12.8	12.3	18.1	16.5	
S	5.4	7.4	2.4	.2	.0		15.3	10.0	13.9	16.0	17.2	13.8	
SW	2.5	7.2	4.2	1.3	.0		15.1	14.3	13.1	18.5	16.0	13.9	
W	2.2	4.9	4.6	1.8	.1		13.5	16.4	11.7	13.8	14.5	14.3	
NW	2.2	3.6	1.6	.2	.0		7.5	11.3	6.6	9.9	6.5	8.4	
VAR	.0	.0	.0	.0	.0		.0	.0	.0	.0	.0	.0	
CALM	3.3						3.3	.0	2.5	1.4	4.9	3.1	
TOT OBS	438	672	245	50	1	1406		11.0	408	219	492	287	
TOT PCT	31.2	47.8	17.4	3.6	.1		100.0		100.0	100.0	100.0	100.0	



PERIOD: (PRIMARY) 1910-1969  
(OVER-ALL) 1859-1969

APRIL

AREA 0013 SPENCER GULF  
35.15 136.9E

TABLE 4

PERCENTAGE FREQUENCY OF WIND SPEED BY HOUR (GMT)

HOUR	CALM	1-3	4-10	WIND SPEED (KNOTS)			48+	MEAN	PCT FREQ	TOTAL OBS
				11-21	22-33	34-47				
00003	2.5	6.9	46.1	33.3	9.6	1.7	.0	11.5	100.0	408
06009	1.4	11.0	42.9	34.7	8.7	.9	.5	11.3	100.0	219
12015	4.9	7.5	43.5	36.0	7.1	1.0	.0	10.7	100.0	492
18021	3.1	8.4	48.4	31.4	7.3	1.4	.0	10.7	100.0	287
TOT	46	113	635	479	114	18	1	11.0		1406
PCT	3.3	8.0	45.2	34.1	8.1	1.3	.1	100.0		

TABLE 5

PCT FREQ OF TOTAL CLOUD AMOUNT (EIGHTHS)  
BY WIND DIRECTION

WIND DIR	0-2	3-4	5-7	8 & 6	TOTAL OBS	MEAN CLOUD COVER
N	3.5	.8	1.7	2.7		4.2
NE	5.1	.8	1.5	1.0		2.6
E	4.2	2.9	2.8	.0		3.0
SE	6.0	1.5	6.7	1.5		3.9
S	2.4	2.1	7.4	2.8		5.3
SW	2.3	3.4	6.9	3.6		5.4
W	3.1	2.4	5.1	1.7		4.6
NW	4.0	1.9	2.7	1.0		3.5
VAR	.0	.0	.0	.0		.0
CALM	2.8	.0	1.4	.0	215	2.3
TOT OBS	72	34	78	31		4.2
TOT PCT	33.5	15.8	36.3	14.4	100.0	

TABLE 6

PERCENTAGE FREQUENCY OF CEILING HEIGHTS (FT, NH >4/8)  
AND OCCURRENCE OF NH <5/8 BY WIND DIRECTION

	000	150	300	600	1000	2000	3500	5000	6500	8000+	NH <5/8	TOTAL
	149	299	599	999	1999	3499	4999	6499	7999		ANY HGT	OBS
N	.0	.0	.0	.7	1.4	.8	.5	.0	.0	.0	5.3	
NE	.0	.0	.0	.7	.0	.1	.0	.0	.0	.0	7.7	
E	.0	.0	.0	.0	.0	.5	1.4	.0	.0	.0	8.0	
SE	.0	.0	.0	.6	4.3	.9	1.0	.0	.0	.0	9.0	
S	.0	.0	.0	1.0	4.4	.8	1.3	.0	.0	.0	6.9	
SW	.0	.0	.5	1.6	3.0	2.4	.0	.5	.0	.0	8.0	
W	.0	.0	.5	1.4	2.4	1.6	.0	.0	.0	.0	6.5	
NW	.0	.0	.0	.0	.7	.2	.5	.0	.0	.0	8.1	
VAR	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
CALM	.0	.0	.0	.0	.0	.5	.0	.0	.0	.0	3.7	
TOT OBS	0	0	2	13	35	17	10	1	0	1	136	215
TOT PCT	.0	.0	.9	6.0	16.3	7.9	4.7	.5	.0	.5	63.3	100.0

TABLE 7

CUMULATIVE PCT FREQ OF SIMULTANEOUS OCCURRENCE  
OF CEILING HEIGHT (NH >4/8) AND VSBY (NM)

CEILING (FEET)	VSBY (NM)							
	>10	>5	>2	>1	>1/2	>1/4	>50YD	>0
OR >4500	.4	.4	.4	.4	.4	.4	.4	.4
OR >5000	1.3	1.3	1.3	1.3	1.3	1.3	1.3	1.3
OR >7500	5.8	6.3	6.3	6.3	6.3	6.3	6.3	6.3
OR >20000	12.6	14.3	14.3	14.3	14.3	14.3	14.3	14.3
OR >10000	26.0	30.0	30.0	30.0	30.0	30.0	30.0	30.0
OR >4000	30.9	35.4	35.9	35.9	35.9	35.9	35.9	35.9
OR >700	30.9	35.9	36.8	36.8	36.8	36.8	36.8	36.8
OR >150	30.9	35.9	36.8	36.8	36.8	36.8	36.8	36.8
OR >0	30.9	35.9	36.8	36.8	36.8	36.8	36.8	36.8
TOTAL	69	80	82	82	82	82	82	82

TOTAL NUMBER OF OBS: 223

PCT FREQ NH <5/8: 63.2

TABLE 7A

PERCENTAGE FREQ OF LOW CLOUDS (EIGHTHS)

	0	1	2	3	4	5	6	7	8	OBS	TOTAL OBS
	19.6	13.8	8.8	8.5	8.5	6.9	13.5	7.7	12.7	.0	260

APRIL

PERIOD: (PRIMARY) 1910-1969  
(OVER-ALL) 1859-1969AREA 0013 SPENCER GULF  
35.15 136.9E

TABLE 8

PERCENT FREQ OF WIND DIRECTION VS OCCURRENCE OR NON-OCCURRENCE OF  
PRECIPITATION WITH VARYING VALUES OF VISIBILITY

VISBY (NM)		N	NE	E	SE	S	SW	W	NW	VAR	CALM	PCT	TOTAL OBS
<1/2	PCP	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
	NO PCP	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
	TOT %	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
1/2<1	PCP	.1	.0	.0	.0	.1	.0	.0	.1	.0	.0	.3	.3
	NO PCP	.0	.3	.3	.2	.3	.0	.0	.0	.0	.0	1.0	1.0
	TOT %	.1	.3	.3	.2	.4	.0	.0	.1	.0	.0	1.3	1.3
1<2	PCP	.0	.0	.0	.1	.0	.0	.0	.0	.0	.0	.1	.1
	NO PCP	.0	.1	.1	.0	.1	.0	.0	.4	.0	.0	.6	.6
	TOT %	.0	.1	.1	.1	.1	.0	.0	.4	.0	.0	.8	.8
2<5	PCP	.0	.0	.0	.0	.0	.4	.0	.0	.0	.0	.4	.4
	NO PCP	.0	.0	.0	.2	.1	.0	.0	.0	.0	.0	.3	.3
	TOT %	.0	.0	.0	.2	.1	.4	.0	.0	.0	.0	.6	.6
5<10	PCP	.5	.3	.3	1.0	.9	1.1	1.9	.8	.0	.0	6.8	6.8
	NO PCP	3.3	3.6	6.0	11.2	10.6	6.9	5.2	3.2	.0	.5	50.5	50.5
	TOT %	3.8	3.9	6.3	12.2	11.5	7.9	7.1	4.0	.0	.5	57.3	57.3
10+	PCP	.1	.1	.1	.1	.4	.4	.0	.0	.0	.0	1.3	1.3
	NO PCP	3.8	3.5	4.6	6.6	6.3	5.6	3.6	3.2	.0	1.5	38.8	38.8
	TOT %	3.9	3.5	4.8	6.7	6.8	6.1	3.6	3.2	.0	1.5	40.1	40.1
TOT OBS													784
TOT PCT		7.8	7.7	11.4	19.4	18.9	14.4	10.7	7.6	.0	2.0	100.0	

TABLE 9

PERCENT FREQ OF WIND DIRECTION VS WIND SPEED  
WITH VARYING VALUES OF VISIBILITY

VISBY (NM)	SPD KTS	N	NE	E	SE	S	SW	W	NW	VAR	CALM	PCT	TOTAL OBS
<1/2	0-3	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
	4-10	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
	11-21	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
	22+	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
	TOT %	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
1/2<1	0-3	.1	.0	.0	.0	.0	.0	.0	.1	.0	.0	.1	.1
	4-10	.0	.0	.2	.1	.1	.0	.0	.0	.0	.0	.4	.4
	11-21	.0	.2	.0	.1	.2	.0	.0	.0	.0	.0	.4	.4
	22+	.0	.0	.0	.0	.1	.0	.0	.0	.0	.0	.1	.1
	TOT %	.1	.2	.2	.2	.4	.0	.0	.1	.0	.0	1.1	1.1
1<2	0-3	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
	4-10	.0	.0	.0	.0	.0	.1	.0	.0	.3	.0	.4	.4
	11-21	.0	.1	.1	.1	.0	.0	.0	.0	.0	.0	.2	.2
	22+	.0	.0	.0	.0	.0	.1	.1	.0	.0	.0	.1	.1
	TOT %	.0	.1	.1	.1	.1	.1	.1	.3	.0	.0	.8	.8
2<5	0-3	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
	4-10	.0	.0	.1	.0	.0	.0	.0	.0	.0	.0	.1	.1
	11-21	.0	.0	.1	.2	.0	.2	.1	.1	.0	.0	.7	.7
	22+	.0	.0	.0	.2	.1	.1	.0	.0	.0	.0	.3	.3
	TOT %	.0	.0	.2	.4	.1	.3	.1	.1	.0	.0	1.1	1.1
5<10	0-3	.3	.2	.6	.8	1.7	.2	.1	.2	.0	.6	4.5	4.5
	4-10	2.0	1.9	2.7	4.7	4.5	2.6	1.7	1.5	.0	.3	21.7	21.7
	11-21	.7	1.2	2.1	4.9	3.6	3.8	2.9	1.7	.0	.0	20.8	20.8
	22+	.3	.1	.2	.3	.4	.6	1.6	.1	.0	.3	3.6	3.6
	TOT %	3.4	3.4	5.5	10.7	10.2	7.1	6.3	3.5	.0	.4	50.6	50.6
10+	0-3	.6	1.2	1.1	.5	.6	.3	.4	.2	.0	2.1	6.9	6.9
	4-10	2.5	2.7	3.2	4.4	4.0	2.4	1.0	1.2	.0	.0	21.4	21.4
	11-21	1.2	.7	1.3	2.4	1.5	3.2	2.0	1.9	.0	.0	14.3	14.3
	22+	.1	.0	.1	.4	.9	1.3	.8	.2	.0	.0	3.8	3.8
	TOT %	4.4	4.6	5.7	7.8	6.9	7.2	4.1	3.5	.0	2.1	46.4	46.4
TOT OBS													894
TOT PCT		7.9	8.3	11.7	19.1	17.7	14.7	10.5	7.5	.0	2.6	100.0	

APRIL

PERIOD: (PRIMARY) 1910-1969  
(OVER-ALL) 1859-1969AREA 0013 SPENCER GULF  
35.15 136.9E

TABLE 10

PERCENT FREQUENCY OF CEILING HEIGHTS (FEET, NH >4/8) AND  
OCCURRENCE OF NH <5/8 BY HOUR

HOUR (GMT)	070 149	150 299	300 599	600 999	1000 1999	2000 3499	3500 4999	5000 6499	6500 7999	8000+	TOTAL	NH <5/8 ANY HGT	TOTAL OBS
00603	.0	.0	2.4	4.9	12.2	12.2	4.9	.0	.0	.0	36.6	63.4	41
06609	.0	.0	.0	5.4	19.6	8.9	1.8	1.8	.0	.0	37.5	62.5	56
12615	.0	.0	.0	8.0	12.0	4.0	4.0	1.3	.0	1.3	30.7	69.3	75
18621	.0	.0	1.6	3.1	15.6	7.8	7.8	.0	.0	.0	35.9	64.1	64
TOT	0	0	2	13	35	16	11	2	0	1	82	154	236
PCT	.0	.0	.8	5.5	14.8	7.6	4.7	.8	.0	.4	34.7	65.3	100.0

TABLE 11

PERCENT FREQUENCY VSBY (NM) BY HOUR

HOUR (GMT)	<1/2	1/2<1	1<2	2<5	5<10	10+	TOTAL OBS
00603	.0	.8	.8	.4	57.1	40.8	238
06609	.0	1.3	.4	1.3	38.8	58.1	160
12615	.0	2.1	.6	1.2	53.4	42.8	341
18621	.0	1.0	1.5	1.5	50.7	45.4	205
TOT	0	13	8	10	484	429	944
PCT	.0	1.4	.8	1.1	51.3	45.4	100.0

TABLE 12

CUMULATIVE PCT FREQ OF RANGES OF VSBY (NM) AND/OR  
CEILING HGT (FEET, NH >4/8) BY HOUR

HOUR (GMT)	<150 <50YD	<600 <1	<1000 <5	1000+ AND5+	NH <5/8 AND 5+	TOTAL OBS
00603	.0	2.5	7.5	30.0	62.5	40
06609	.0	.0	5.6	33.3	61.1	54
12615	.0	.0	8.5	23.9	67.6	71
18621	.0	1.7	5.2	34.5	60.3	58
TOT	0	2	15	67	141	223
PCT	.0	.9	6.7	30.0	63.2	100.0

TABLE 13

PERCENT FREQUENCY OF RELATIVE HUMIDITY BY TEMP

TEMP F	0-29	30-39	40-49	50-59	60-69	70-79	80-89	90-100	TOTAL OBS	PCT FREQ
74/79	.0	.0	.0	.0	.2	.0	.0	.0	1	.2
70/74	.0	.0	.0	.9	1.4	1.7	1.7	.0	24	5.7
65/69	.0	.0	.0	.7	3.3	5.2	10.4	3.3	97	22.9
60/64	.0	.0	.2	.9	7.6	19.6	20.3	5.7	230	54.4
55/59	.0	.0	.0	.2	2.6	7.3	5.4	.7	69	16.3
50/54	.0	.0	.0	.0	.0	.0	.2	.2	2	.5
TOTAL	0	0	1	12	64	143	161	42	423	100.0
PCT	.0	.0	.2	2.8	15.1	33.8	38.1	9.9		

TABLE 14

PERCENT FREQUENCY OF WIND DIRECTION BY TEMP

N	NE	E	SE	S	SW	W	NW	VAR	CALM
.2	.0	.0	.0	.0	.0	.0	.0	.0	.0
1.5	1.7	.9	.0	.2	.2	.0	1.1	.0	.0
3.4	2.3	2.5	2.4	2.7	2.9	2.2	3.3	.0	1.2
3.0	2.4	6.0	13.2	10.2	8.5	7.0	2.1	.0	2.1
.0	1.1	1.8	2.8	4.1	3.8	1.3	.8	.0	.5
.2	.0	.0	.2	.0	.0	.0	.0	.0	.0
8.4	7.4	11.2	18.6	17.2	15.5	10.6	7.3	.0	3.8

TABLE 15

MEANS, EXTREMES AND PERCENTILES OF TEMP (DEG F) BY HOUR

HOUR (GMT)	MAX	99%	95%	50%	5%	1%	MIN	MEAN	TOTAL OBS
00603	74	72	70	63	57	55	52	63.4	406
06609	75	74	71	64	56	55	55	64.3	210
12615	75	72	68	62	57	55	52	62.4	512
18621	71	69	66	61	56	55	52	61.3	297
TOT	75	72	69	63	57	55	52	62.7	1425

TABLE 16

PERCENT FREQUENCY OF RELATIVE HUMIDITY BY HOUR

HOUR (GMT)	0-29	30-39	40-49	50-59	60-69	70-79	80-89	90-100	MEAN	TOTAL OBS
00603	.0	3.3	17.4	21.7	46.7	10.9	79	92		
06609	.0	5.8	23.3	37.2	26.7	7.0	75	86		
12615	.0	1.9	14.9	36.0	38.5	8.7	79	161		
18621	.0	2.9	7.6	37.1	38.1	14.3	80	105		
TOT	0	14	68	149	168	45	78	444		

## APRIL

PERIOD: (PRIMARY) 1910-1969  
(OVER-ALL) 1859-1969

TABLE 17

AREA 0013 SPENCER GULF  
35.15 136.9EPCT FREQ OF AIR TEMPERATURE (DEG F) AND THE OCCURRENCE OF FOG (WITHOUT PRECIPITATION)  
VS AIR-SEA TEMPERATURE DIFFERENCE (DEG F)

AIR-SEA TMP DIF	49 52	53 56	57 60	61 64	65 68	69 72	73 76	TOT	W FOG	WD FOG
9/10	.0	.0	.0	.0	.0	.3	.0	2	.0	.3
7/8	.0	.0	.0	.1	.3	.9	.4	12	.0	1.7
6	.0	.0	.0	.0	.3	.4	.4	8	.0	1.1
5	.0	.0	.0	.1	.4	.7	.1	10	.1	1.3
4	.0	.0	.1	.4	1.0	1.1	.3	21	.1	2.9
3	.0	.0	.1	1.3	2.2	1.7	.0	37	.0	5.3
2	.0	.0	.6	1.4	4.5	.7	.0	50	.3	6.9
1	.0	.0	.6	4.6	3.3	.4	.0	62	.3	8.0
0	.0	.0	1.1	9.3	2.9	.4	.0	96	.3	13.5
-1	.0	.1	1.4	7.5	2.2	.0	.0	78	.0	11.2
-2	.0	.1	3.2	7.0	1.1	.0	.0	80	.1	11.4
-3	.0	.0	3.6	5.2	.6	.0	.0	65	.1	9.2
-4	.0	.1	5.6	5.0	.3	.0	.0	77	.0	11.1
-5	.1	.1	3.6	2.0	.0	.0	.0	41	.0	5.9
-6	.0	.9	2.0	.6	.0	.0	.0	24	.0	3.4
-7/-8	.1	.6	2.7	.3	.0	.0	.0	26	.0	3.7
-9/-10	.0	.7	.1	.0	.0	.0	.0	6	.0	.9
-11/-13	.0	.0	.1	.0	.0	.0	.0	1	.0	.1
TOTAL	2	174	132	47	696	100.0	1.4	98.6		
PCT	.3	2.7	25.0	45.0	19.0	6.8	1.3			

PERIOD: (OVER-ALL) 1963-1969

TABLE 18

PCT FREQ OF WIND SPEED (KTS) AND DIRECTION VERSUS SEA HEIGHTS (FT)

HGT	1-3	4-10	11-21	22-33	34-47	48+	PCT	1-3	4-10	11-21	22-33	34-47	48+	PCT
<1	.6	.0	.0	.0	.0	.0	.6	.6	.9	.0	.0	.0	.0	1.4
1-2	.0	3.9	1.0	.0	.0	.0	4.9	.0	1.3	.1	.0	.0	.0	1.4
3-4	.0	1.6	1.9	.0	.0	.0	3.4	.0	1.9	.6	.0	.0	.0	2.4
5-6	.0	.0	.0	.0	.0	.0	.0	.0	.0	.1	.0	.0	.0	.1
7	.0	.0	.0	.0	.0	.0	.0	.0	.0	.6	.0	.0	.0	.6
8-9	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
10-11	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
12	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
13-16	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
17-19	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
20-22	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
23-25	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
26-32	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
33-40	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
41-48	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
49-60	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
61-70	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
71-86	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
87+	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
TOT PCT	.6	5.5	2.9	.0	.0	.0	8.9	.6	4.0	1.4	.0	.0	.0	6.0

HGT	1-3	4-10	11-21	22-33	34-47	48+	PCT	1-3	4-10	11-21	22-33	34-47	48+	PCT
<1	.6	.9	.0	.0	.0	.0	1.4	.9	1.7	.0	.0	.0	.0	2.6
1-2	.0	2.0	.4	.0	.0	.0	2.4	.0	5.0	.7	.0	.0	.0	5.7
3-4	.0	1.7	3.4	.0	.0	.0	5.2	.0	3.0	3.3	.0	.0	.0	6.3
5-6	.0	.6	1.0	.0	.0	.0	1.6	.0	.0	3.6	.0	.0	.0	3.6
7	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
8-9	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.6	.0	.0	.6
10-11	.0	.0	.0	.0	.0	.0	.0	.0	.0	.6	.6	.0	.0	1.1
12	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
13-16	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
17-19	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
20-22	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
23-25	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
26-32	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
33-40	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
41-48	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
49-60	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
61-70	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
71-86	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
87+	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
TOT PCT	.6	5.2	4.9	.0	.0	.0	10.6	.9	9.8	8.2	1.1	.0	.0	20.0

PERIOD: (OVER-ALL) 1963-1969

APRIL

AREA 0013 SPENCER GULF  
35.15 136.9E

TABLE 18 (CONT)

PCT FREQ OF WIND SPEED (KTS) AND DIRECTION VERSUS SEA HEIGHTS (FT)

HGT	1-3	4-10	11-21	22-33	34-47	48+	PCT	1-3	4-10	11-21	22-33	34-47	48+	PCT
<1	1.3	.0	.0	.0	.0	.0	1.3	.7	.0	.0	.0	.0	.0	.7
1-2	.4	4.0	.4	.0	.0	.0	4.9	.1	1.0	.7	.0	.0	.0	1.9
3-4	.0	1.6	2.3	.4	.0	.0	4.3	.0	1.1	2.9	.1	.0	.0	4.2
5-6	.0	.0	1.4	1.1	.0	.0	2.6	.0	.0	2.7	1.9	.0	.0	4.6
7	.0	.0	.0	.4	.0	.0	.4	.0	.0	.6	.3	.0	.0	.9
8-9	.0	.0	.0	.0	.0	.0	.0	.0	.0	.6	.6	.0	.0	1.1
10-11	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.6	.0	.0	.6
12	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.1	.0	.0	.1
13-16	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.1	.0	.0	.1
17-19	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
20-22	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.6	.0	.0	.6
23-25	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
26-32	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
33-40	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
41-48	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
49-60	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
61-70	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
71-86	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
87+	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
TOT PCT	1.7	5.6	4.2	2.0	.0	.0	13.5	.9	2.2	7.5	4.2	.0	.0	14.7

HGT	1-3	4-10	11-21	22-33	34-47	48+	PCT	1-3	4-10	11-21	22-33	34-47	48+	PCT	TOTAL PCT
<1	.0	.0	.0	.0	.0	.0	.0	.0	.6	.0	.0	.0	.0	.6	
1-2	.0	2.7	.6	.0	.0	.0	3.3	.0	3.0	1.1	.0	.0	.0	4.2	
3-4	.0	.0	3.2	.0	.0	.0	3.2	.0	.0	2.0	.0	.0	.0	2.0	
5-6	.0	.0	3.0	.4	.6	.0	4.0	.0	.6	1.3	.0	.0	.0	1.9	
7	.0	.0	.0	1.0	.0	.0	1.0	.0	.0	.0	.6	.0	.0	.6	
8-9	.0	.0	.0	.0	.4	.0	.4	.0	.0	.0	.0	.1	.0	.1	
10-11	.0	.0	.0	1.0	.0	.0	1.0	.0	.0	.0	.0	.1	.0	.1	
12	.0	.0	.0	.6	.0	.0	.6	.0	.0	.0	.0	.0	.0	.0	
13-16	.0	.0	.0	.4	.0	.0	.4	.0	.0	.0	.0	.0	.0	.0	
17-19	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
20-22	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
23-25	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
26-32	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
33-40	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
41-48	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
49-60	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
61-70	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
71-86	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
87+	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
TOT PCT	.0	2.7	6.8	3.4	1.0	.0	13.9	.0	4.2	4.5	.7	.1	.0	9.5	97.1

WIND SPEED (KTS) VS SEA HEIGHT (FT)

HGT	0-3	4-10	11-21	22-33	34-47	48+	PCT	TOT OBS
<1	8.0	4.0	.0	.0	.0	.0	11.9	
1-2	1.1	22.7	5.1	.0	.0	.0	29.0	
3-4	.0	10.8	19.3	.6	.0	.0	30.7	
5-6	.0	1.1	13.1	3.4	.6	.0	18.2	
7	.0	.0	1.1	2.3	.0	.0	3.4	
8-9	.0	.0	.6	1.1	.6	.0	2.3	
10-11	.0	.0	.6	2.3	.0	.0	2.8	
12	.0	.0	.0	.6	.0	.0	.6	
13-16	.0	.0	.0	.6	.0	.0	.6	
17-19	.0	.0	.0	.0	.0	.0	.0	
20-22	.0	.0	.0	.6	.0	.0	.6	
23-25	.0	.0	.0	.0	.0	.0	.0	
26-32	.0	.0	.0	.0	.0	.0	.0	
33-40	.0	.0	.0	.0	.0	.0	.0	
41-48	.0	.0	.0	.0	.0	.0	.0	
49-60	.0	.0	.0	.0	.0	.0	.0	
61-70	.0	.0	.0	.0	.0	.0	.0	
71-86	.0	.0	.0	.0	.0	.0	.0	
87+	.0	.0	.0	.0	.0	.0	.0	
TOT PCT	9.1	38.6	39.8	11.4	1.1	.0	100.0	176

PERIOD: (OVER-ALL) 1949-1969

TABLE 19

PERCENT FREQUENCY OF WAVE HEIGHT (FT) VS WAVE PERIOD (SECONDS)

PERIOD (SEC)	<1	1-2	3-4	5-6	7	8-9	10-11	12	13-16	17-19	20-22	23-25	26-32	33-40	41-48	49-60	61-70	71-86	87+	TOTAL	MEAN HGT
<6	2.8	11.9	10.6	4.1	1.4	.5	.0	.0	.5	.5	.0	.0	.0	.0	.0	.0	.0	.0	.0	70	3
6-7	.0	.5	6.9	3.2	5.0	3.2	.9	.9	.5	.5	.0	.5	.0	.0	.0	.0	.0	.0	.0	48	6
8-9	.0	.0	1.4	6.9	4.6	3.2	1.8	.5	1.8	.0	.9	.0	.0	.0	.0	.0	.0	.0	.0	45	8
10-11	.0	.0	.5	.9	2.8	.5	.9	1.4	.5	.0	.9	.0	.0	.0	.0	.0	.0	.0	.0	18	9
12-13	.0	.0	.9	.0	.0	.9	.5	.0	.9	.0	.9	.0	.0	.0	.0	.0	.0	.0	.0	9	12
>13	.0	.0	.0	.9	.0	.9	.0	.9	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	5	8
INDET	4.1	.9	.9	.5	1.8	.0	.0	.9	.5	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	21	4
TOTAL	15	29	45	36	34	20	9	10	10	2	6	1	0	0	0	0	0	0	0	218	6
PCT	6.9	13.3	21.1	16.5	15.6	9.2	4.1	4.6	4.6	.9	2.8	.5	.0	.0	.0	.0	.0	.0	.0	100.0	



PERIOD: (PRIMARY) 1911-1969  
(OVER-ALL) 1864-1969

MAY

AREA 0013 SPENCER GULF  
35.25 137.0E

TABLE 1

PERCENT FREQUENCY OF WEATHER OCCURRENCE BY WIND DIRECTION

PRECIPITATION TYPE										OTHER WEATHER PHENOMENA					
WIND DIR	RAIN	RAIN SHWR	DRZL	FRZG PCPN	SNOW	OTHER FRZN PCPN	HAIL	PCPN AT DB TIME	PCPN PAST HOUR	THDR LTNG	FOG WD PCPN	FOG WD PCPN PAST HR	SMOKE HAZE	SPRAY BLWG DUST	NO SIG WE4
N	5.3	1.3	.9	.0	.0	.0	.0	7.6	.0	1.3	3.6	.0	.9	.0	87.6
NE	4.8	1.0	.0	.0	.0	.0	.0	5.8	.0	1.5	.0	.0	.0	.0	92.7
E	5.4	1.4	1.4	.0	.0	.0	.0	8.3	.0	.0	1.4	.0	.0	.0	90.3
SE	3.2	10.8	4.0	.0	.0	.0	.0	18.1	.0	.8	1.6	.0	.0	.0	79.5
S	1.4	19.1	2.2	.0	.0	.0	.0	22.7	1.4	5.0	.7	.0	.0	.0	70.1
SW	5.0	12.3	1.4	.0	.0	.0	.0	18.8	4.2	.2	.3	.0	1.0	.0	75.5
W	5.5	11.9	3.2	.0	.0	.0	.0	20.6	4.9	.6	.0	.0	1.0	.0	72.9
NW	4.7	6.3	2.1	.0	.0	.0	.0	13.1	2.1	2.1	.0	.0	1.3	.0	81.5
VAR	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
CALM	8.3	.0	8.3	.0	.0	.0	.0	16.7	.0	.0	.0	.0	.0	.0	33.3
TOT PCT	4.7	7.9	1.9	.0	.0	.0	.0	14.5	1.9	1.3	.9	.0	.6	.0	81.0
TOT OBS:	788														

TABLE 2

PERCENT FREQUENCY OF WEATHER OCCURRENCE BY HOUR

HOUR (GMT)	PRECIPITATION TYPE							OTHER WEATHER PHENOMENA							
	RAIN	RAIN SHWR	DRZL	FRZG PCPN	SNOW	OTHER FRZN PCPN	HAIL	PCPN AT OB TIME	PCPN PAST HOUR	THDR LTNG	FGG WD PCPN	FGG WD PCPN PAST HR	SMOKE HAZE	SPRAY BLWG DUST BLWG SNOW	NO SIG WE4
00603	4.3	5.9	1.6	.0	.0	.0	.0	11.9	.5	.0	2.7	.0	.0	.0	84.9
06009	2.8	6.9	1.4	.0	.0	.0	.0	11.1	4.9	.0	.7	.0	2.1	.0	81.3
12015	6.4	9.0	2.3	.0	.0	.0	.0	17.7	1.6	2.3	.6	.0	.6	.0	77.5
18021	2.8	8.4	2.8	.0	.0	.0	.0	14.0	1.1	1.7	.0	.0	.0	.0	83.1
TOT PCT	4.5	7.8	2.1	.0	.0	.0	.0	14.4	1.8	1.2	1.0	.0	.6	.0	81.1
TOT OBS:	818														

TABLE 3

PERCENTAGE FREQUENCY OF WIND DIRECTION BY SPEED AND BY HOUR

WIND DIR	WIND SPEED (KNOTS)							TOTAL OBS	PCT FREQ	MEAN SPD	HOUR (GMT)							
	0-3	4-10	11-21	22-33	34-47	48+					00	03	06	09	12	15	18	21
N	.9	6.2	5.1	.5	.1	.0		12.8	10.6		13.8	16.9	14.5	10.7	10.3	9.9	12.6	26.5
NE	1.0	6.2	4.2	.2	.0	.0		11.6	9.6		13.0	14.2	11.0	3.6	9.6	13.5	11.0	2.9
E	.8	5.0	2.1	.3	.0	.0		8.2	9.2		8.1	8.1	8.7	7.1	9.1	8.8	6.5	2.9
SE	.9	5.0	3.1	.4	.0	.0		9.4	10.0		8.5	8.1	7.0	10.7	9.7	11.7	10.7	5.9
S	.8	4.9	4.7	1.2	.1	.0		11.7	12.3		12.3	11.1	12.4	10.7	11.2	12.8	11.2	2.9
SW	1.2	5.9	7.2	2.1	.9	.1		17.4	14.6		16.6	11.1	18.2	28.6	18.6	16.2	19.0	17.5
W	.4	5.1	7.0	1.7	.6	.2		15.0	15.0		13.1	10.5	14.8	21.4	17.1	14.9	16.4	20.5
NW	.6	4.9	4.7	1.3	.0	.0		11.5	12.4		10.9	17.5	11.8	7.1	12.1	8.6	9.9	8.8
VAR	.0	.0	.0	.0	.0	.0		.0	.0		.0	.0	.0	.0	.0	.0	.0	.0
CALM	2.5							2.5	.0		1.7	2.4	1.5	.0	2.4	3.6	2.4	11.8
TOT OBS	121	574	507	103	22	4	1331		11.8		177	166	203	14	287	222	245	17
TOT PCT	9.1	43.1	38.1	7.7	1.7	.3		100.0			100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0

TABLE 3A

WIND DIR	WIND SPEED (KNOTS)					TOTAL OBS	PCT FREQ	MEAN SPD	HOUR (GMT)				
	0-6	7-16	17-27	28-40	41+				00	06	12	18	21
N	3.7	6.9	2.1	.1	.0		12.8	10.6	15.3	14.3	10.1	13.5	
NE	3.7	6.5	1.3	.1	.0		11.6	9.6	13.6	10.5	11.3	10.5	
E	2.9	4.3	1.0	.0	.0		8.2	9.2	8.1	8.6	8.9	6.3	
SE	2.8	5.3	1.3	.1	.0		9.4	10.0	8.3	7.3	10.6	10.4	
S	2.5	6.2	2.5	.5	*		11.7	12.3	11.7	12.3	11.9	10.7	
SW	3.5	7.4	4.2	2.0	.3		17.4	14.6	15.0	18.9	17.5	18.9	
W	2.7	6.8	4.1	1.0	.5		15.0	15.0	11.9	15.2	16.1	16.9	
NW	2.5	5.6	3.0	.3	.0		11.5	12.4	14.1	11.5	10.6	9.8	
VAR	.0	.0	.0	.0	.0		.0	.0	.0	.0	.0	.0	
CALM	2.5						2.5	.0	2.0	1.4	2.9	3.1	
TOT OBS	357	653	257	53	11	1331		11.8	343	217	509	262	
TOT PCT	26.8	49.1	19.3	4.0	.8		100.0		100.0	100.0	100.0	100.0	

MAY

PERIOD: (PRIMARY) 1911-1969  
(OVER-ALL) 1864-1969AREA 0013 SPENCER GULF  
35.25 137.0E

TABLE 4

PERCENTAGE FREQUENCY OF WIND SPEED BY HOUR (GMT)

HOUR	CALM	1-3	4-10	WIND SPEED (KNOTS)			48+	MEAN	PCT FREQ	TOTAL OBS
				11-21	22-33	34-47				
00003	2.0	8.5	42.0	36.4	9.9	1.2	.0	11.7	100.0	343
06009	1.4	6.5	48.8	35.0	5.5	.9	1.8	11.6	100.0	217
12015	2.9	6.5	43.0	37.5	7.9	2.2	.0	11.7	100.0	509
18021	3.1	4.6	40.1	43.9	6.5	1.9	.0	12.3	100.0	262
TOT	33	88	574	507	103	22	4	11.8		1331
PCT	2.5	6.6	43.1	38.1	7.7	1.7	.3	100.0		

TABLE 5

PCT FREQ OF TOTAL CLOUD AMOUNT (EIGHTHS)  
BY WIND DIRECTION

WIND DIR	0-2	3-4	5-7	8 & 9	TOTAL OBS	MEAN CLOUD COVER
N	6.7	1.5	.7	2.4		2.8
NE	6.3	2.4	2.1	1.3		3.0
E	3.5	1.5	2.3	3.0		4.6
SE	2.5	1.2	1.3	.7		3.6
S	1.6	2.6	1.6	1.5		4.6
SW	1.9	3.8	8.9	3.6		5.3
W	2.8	5.1	7.8	3.5		4.8
NW	3.3	2.3	5.1	3.6		4.9
VAR	.0	.0	.0	.0		.0
CALM	.7	.0	.0	.7		4.0
TOT OBS	81	56	82	56	275	4.3
TOT PCT	29.5	20.4	29.8	20.4	100.0	

TABLE 6

PERCENTAGE FREQUENCY OF CEILING HEIGHTS (FT, NH >4/8)  
AND OCCURRENCE OF NH <5/8 BY WIND DIRECTION

	000	150	300	600	1000	2000	3500	5000	6500	8000+	NH <5/8	TOTAL
	149	299	599	999	1999	3499	4999	6499	7999		ANY HGT	OBS
N	.0	.0	.0	.0	2.1	.3	.4	.4	.0	.0	.0	8.3
NE	.0	.0	.0	.4	1.2	.8	.4	.0	.0	.0	.0	9.3
E	.0	.0	.0	.0	2.1	1.0	.4	.0	.0	.0	.0	6.8
SE	.0	.0	.0	.1	.2	.5	.7	.4	.0	.0	.0	3.9
S	.0	.0	.0	.3	.8	.4	.4	.4	.0	.0	.0	5.3
SW	.0	.4	.0	1.3	6.6	1.6	1.8	.1	.0	.0	.0	6.5
W	.0	.4	.0	1.9	6.2	1.3	.3	.3	.0	.0	.0	8.9
NW	.0	.0	.0	.8	4.1	.7	.5	.0	.0	.0	.0	8.2
VAR	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
CALM	.0	.0	.0	.0	.0	.0	.4	.0	.0	.0	.0	1.1
TOT OBS	0	1	1	13	64	19	13	4	0	0	160	275
TOT PCT	.0	.4	.4	4.7	23.3	6.9	4.7	1.5	.0	.0	58.2	100.0

TABLE 7

CUMULATIVE PCT FREQ OF SIMULTANEOUS OCCURRENCE  
OF CEILING HEIGHT (NH >4/8) AND VSBY (NM)

CEILING (FEET)	VSBY (NM)							
	>10	>5	>2	>1	>1/2	>1/4	>50YD	>0
>A500	.0	.0	.0	.0	.0	.0	.0	.0
>5000	1.4	1.4	1.4	1.4	1.4	1.4	1.4	1.4
>3500	5.4	5.8	6.1	6.1	6.1	6.1	6.1	6.1
>2000	11.2	12.2	12.6	12.6	12.6	12.6	12.6	12.6
>1000	32.4	35.6	36.0	36.0	36.0	36.0	36.0	36.0
>500	36.0	39.9	41.0	41.0	41.0	41.0	41.0	41.0
>300	36.0	40.3	41.4	41.4	41.4	41.4	41.4	41.4
>150	36.0	40.6	41.7	41.7	41.7	41.7	41.7	41.7
>0	36.0	40.6	41.7	41.7	41.7	41.7	41.7	41.7
TOTAL	100	113	116	116	116	116	116	116

TOTAL NUMBER OF OBS: 278

PCT FREQ NH &lt;5/8: 58.2

TABLE 7A

PERCENTAGE FREQ OF LOW CLOUDS (EIGHTHS)

0	1	2	3	4	5	6	7	8	OBSCD	TOTAL OBS
15.8	8.7	11.2	11.5	8.4	9.9	9.0	9.6	15.8	.0	322

PERIOD: (PRIMARY) 1911-1969  
(OVER-ALL) 1864-1969

MAY

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TABLE 8

PERCENT FREQ OF WIND DIRECTION VS OCCURRENCE OR NON-OCCURRENCE OF  
PRECIPITATION WITH VARYING VALUES OF VISIBILITY

VSBY (NM)		N	NE	E	SE	S	SW	W	NW	VAR	CALM	PCT	TOTAL OBS	
<1/2	PCP	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
	NO PCP	.1	.0	.0	.0	.0	.0	.0	.0	.0	.0	.1	.1	
	TOT %	.1	.0	.0	.0	.0	.0	.0	.0	.0	.0	.1	.1	
1/2<1	PCP	.0	.1	.0	.0	.0	.0	.1	.0	.0	.0	.3	.3	
	NO PCP	.4	.0	.1	.1	.1	.1	.0	.0	.0	.0	.8	.8	
	TOT %	.4	.1	.1	.1	.1	.1	.1	.0	.0	.0	1.0	1.0	
1<2	PCP	.0	.0	.0	.0	.0	.0	.0	.1	.0	.0	.1	.1	
	NO PCP	.1	.0	.0	.0	.0	.2	.1	.1	.0	.0	.5	.5	
	TOT %	.1	.0	.0	.0	.0	.2	.1	.3	.0	.0	.6	.6	
2<5	PCP	.0	.1	.0	.0	.0	.1	.3	*	.0	.0	.5	.5	
	NO PCP	.0	.0	.0	.1	.1	.2	.2	.0	.0	.0	.5	.5	
	TOT %	.0	.1	.0	.1	.1	.2	.4	*	.0	.0	1.0	1.0	
5<10	PCP	.8	.3	.4	1.3	1.7	2.7	2.1	.8	.0	.1	10.2	10.2	
	NO PCP	5.8	6.3	3.0	3.0	3.2	6.9	5.2	4.3	.0	.4	38.0	38.0	
	TOT %	6.6	6.6	3.4	4.3	4.9	9.6	7.3	5.1	.0	.5	48.2	48.2	
10+	PCP	.3	.2	.3	.2	.3	.6	.7	.7	.0	.1	3.4	3.4	
	NO PCP	6.8	5.5	4.8	3.3	3.4	7.5	7.1	6.2	.0	.9	45.5	45.5	
	TOT %	7.1	5.7	5.2	3.5	3.8	8.2	7.8	6.8	.0	1.0	49.0	49.0	
TOT OBS														786
TOT PCT		14.3	12.5	8.7	7.9	8.8	18.3	15.7	12.2	.0	1.5	100.0		

TABLE 9

PERCENT FREQ OF WIND DIRECTION VS WIND SPEED  
WITH VARYING VALUES OF VISIBILITY

VISBY (NM)	SPD KTS	N	NE	E	SE	S	SW	W	NW	VAR	CALM	PCT	TOTAL OBS	
<1/2	0-3	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
	4-10	.1	.0	.0	.0	.0	.0	.0	.0	.0	.0	.1	.1	
	11-21	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
	22+	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
	TOT %	.1	.0	.0	.0	.0	.0	.0	.0	.0	.0	.1	.1	
1/2<1	0-3	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
	4-10	.2	.1	.1	.0	.1	.1	.1	.0	.0	.0	.7	.7	
	11-21	.1	.0	.0	.1	.0	.0	.0	.0	.0	.0	.2	.2	
	22+	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
	TOT %	.3	.1	.1	.1	.1	.1	.1	.1	.0	.0	.9	.9	
1<2	0-3	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
	4-10	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
	11-21	.1	.0	.0	.0	.0	.1	.1	.2	.0	.0	.4	.4	
	22+	.0	.0	.0	.0	.0	.1	.0	.0	.0	.0	.1	.1	
	TOT %	.1	.0	.0	.0	.0	.2	.1	.2	.0	.0	.5	.5	
2<5	0-3	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
	4-10	.0	.2	.1	.0	.1	.1	.0	.0	.0	.0	.4	.4	
	11-21	.0	.0	.0	.0	.0	*	.4	.1	.0	.0	.5	.5	
	22+	.0	.0	.0	.1	.1	.2	.1	.0	.0	.0	.4	.4	
	TOT %	.0	.2	.1	.1	.1	.3	.5	.1	.0	.0	1.4	1.4	
5<10	0-3	.2	.1	.2	.2	.3	.8	.1	.2	.0	.4	2.5	2.5	
	4-10	2.5	3.2	2.1	1.4	1.1	2.3	1.4	2.0	.0	.0	16.0	16.0	
	11-21	2.8	2.6	.8	1.9	2.1	3.9	3.7	1.5	.0	.0	19.2	19.2	
	22+	.3	.1	.0	.2	.7	1.3	1.6	.6	.0	.0	4.8	4.8	
	TOT %	5.7	6.0	3.1	3.7	4.3	8.3	6.8	4.3	.0	.4	42.5	42.5	
10+	0-3	.7	.5	.7	.6	.5	.6	.4	.3	.0	2.0	6.2	6.2	
	4-10	3.6	3.3	2.9	2.5	1.8	3.5	3.2	3.2	.0	.0	24.0	24.0	
	11-21	2.7	2.0	1.3	.8	1.7	3.7	3.9	3.6	.0	.0	19.5	19.5	
	22+	.4	.2	.1	.2	.4	1.7	1.1	.7	.0	.0	4.8	4.8	
	TOT %	7.4	5.9	4.9	4.0	4.4	9.5	8.6	7.8	.0	2.0	54.5	54.5	
TOT OBS														917
TOT PCT		13.7	12.3	8.2	7.8	8.8	18.3	16.0	12.5	.0	2.4	100.0		

PERIOD: (PRIMARY) 1911-1969  
(OVER-ALL) 1864-1969

MAY

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TABLE 10

PERCENT FREQUENCY OF CEILING HEIGHTS (FEET, NH >4/8) AND  
OCCURRENCE OF NH <5/8 BY HOUR

HOUR (GMT)	000 149	150 299	300 599	600 999	1000 1999	2000 3499	3500 4999	5000 6499	6500 7999	8000+	TOTAL	NH <5/8 ANY HGT	TOTAL DBS
00003	.0	.0	1.8	3.5	29.8	7.0	3.5	1.8	.0	.0	47.4	52.6	57
06009	.0	1.5	.0	4.5	16.4	4.5	9.0	.0	.0	.0	35.8	64.2	67
12015	.0	.0	.0	5.3	21.1	7.4	4.2	2.1	.0	.0	40.0	60.0	95
18021	.0	.0	.0	5.1	23.1	6.4	1.3	1.3	.0	.0	37.2	62.8	78
TOT	0	1	1	14	66	19	13	4	0	0	118	179	297
PCT	.0	.3	.3	4.7	22.2	6.4	4.4	1.3	.0	.0	39.7	60.3	100.0

TABLE 11

PERCENT FREQUENCY VSBY (NM) BY HOUR

HOUR (GMT)	<1/2	1/2<1	1<2	2<5	5<10	10+	TOTAL DBS
00003	.5	1.9	.0	.9	44.6	52.1	213
06009	.0	.6	1.2	1.9	40.4	55.9	161
12015	.0	1.1	.5	.8	46.1	51.5	373
18021	.0	.0	.5	2.5	38.0	59.0	200
TOT	1	9	5	13	408	511	947
PCT	.1	1.0	.5	1.4	43.1	54.0	100.0

TABLE 12

CUMULATIVE PCT FREQ OF RANGES OF VSBY (NM) AND/OR  
CEILING HGT (FEET, NH >4/8), BY HOUR

HOUR (GMT)	<150 <500	<600 <1	<1000 <5	1000+ AND 5+	NH <5/8 AND 5+	TOTAL DBS
00003	.0	1.9	5.6	44.4	50.0	54
06009	.0	1.6	6.3	29.7	64.1	64
12015	.0	.0	5.7	37.9	56.3	87
18021	.0	.0	8.2	31.5	60.3	73
TOT	0	2	18	99	161	278
PCT	.0	.7	6.5	35.6	57.9	100.0

TABLE 13

PERCENT FREQUENCY OF RELATIVE HUMIDITY BY TEMP

TEMP F	0-29	30-39	40-49	50-59	60-69	70-79	80-89	90-100	TOTAL DBS	PCT FREQ
70/74	.0	.0	.0	.2	.2	.0	.2	.2	4	.9
65/69	.0	.0	.0	.4	4.2	1.4	2.6	.7	40	9.3
60/64	.0	.0	.2	2.3	8.9	17.3	12.6	3.7	193	45.1
55/59	.0	.0	.2	2.1	6.8	15.0	13.3	4.4	179	41.8
50/54	.0	.0	.0	.4	.7	.5	.5	.7	12	2.8
TOTAL	0	0	2	24	89	146	125	42	428	100.0
PCT	.0	.0	.5	5.6	20.8	34.1	29.2	9.8		

TABLE 14

PERCENT FREQUENCY OF WIND DIRECTION BY TEMP

	N	NE	E	SE	S	SW	W	NW	VAR	CALM
70/74	.5	.2	.2	.0	.0	.0	.0	.0	.0	.0
65/69	2.3	1.3	.6	.5	.0	.6	.9	3.0	.0	.2
60/64	8.7	7.1	4.6	1.8	2.9	5.3	8.0	5.8	.0	.9
55/59	4.0	3.2	2.2	2.1	4.1	11.2	9.2	4.8	.0	.9
50/54	.1	.5	.6	.0	.2	.9	.2	.2	.0	.0
TOTAL	15.6	12.3	8.1	4.4	7.2	18.0	18.3	14.0	.0	2.1

TABLE 15

MEANS, EXTREMES AND PERCENTILES OF TEMP (DEG F) BY HOUR

HOUR (GMT)	MAX	99%	95%	50%	5%	1%	MIN	MEAN	TOTAL DBS
00003	71	69	67	60	55	51	51	60.1	343
06009	70	69	67	61	55	52	49	60.6	203
12015	72	67	65	59	55	52	50	59.4	522
18021	67	66	64	59	54	52	50	58.6	247
TOT	72	68	65	59	55	52	49	59.6	1335

TABLE 16

PERCENT FREQUENCY OF RELATIVE HUMIDITY BY HOUR

HOUR (GMT)	0-29	30-39	40-49	50-59	60-69	70-79	80-89	90-100	MEAN	TOTAL DBS
00003	.0	6.8	19.3	29.5	29.5	14.8	78	88		
06009	.0	5.8	33.7	36.0	17.4	7.0	73	86		
12015	.0	6.0	13.1	38.7	33.9	6.3	78	168		
18021	.0	4.9	24.5	30.4	30.4	9.8	76	102		
TOT	0	26	93	153	129	43	76	444		

PERIOD: (PRIMARY) 1911-1969  
(OVER-ALL) 1864-1969

MAY

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TABLE 17

PCT FREQ OF AIR TEMPERATURE (DEG F) AND THE OCCURRENCE OF FOG (WITHOUT PRECIPITATION)  
VS AIR-SEA TEMPERATURE DIFFERENCE (DEG F)

AIR-SEA TMP DIF	49 52	53 56	57 60	61 64	65 68	69 72	TOT	W FOG	WD FOG
11/13	.0	.0	.0	.0	.0	.1	1	.0	.1
7/8	.0	.0	.0	.0	.4	.1	4	.0	.6
6	.0	.0	.0	.1	.4	.1	5	.0	.7
5	.0	.0	.0	.3	.4	.3	7	.0	1.0
4	.0	.0	.1	.4	1.0	.0	11	.0	1.6
3	.0	.0	.4	1.7	1.2	.0	23	.0	3.3
2	.0	.0	.4	1.6	2.3	.0	30	.0	4.3
1	.0	.0	2.2	5.9	.7	.0	61	.1	8.7
0	.0	.4	4.5	6.9	1.2	.0	90	.0	13.0
-1	.0	.6	6.1	6.5	.0	.0	91	.4	12.7
-2	.1	.9	9.4	4.9	.1	.0	107	.0	15.4
-3	.0	.3	8.4	2.3	.0	.0	76	.3	10.7
-4	.0	2.7	7.2	.3	.0	.0	71	.0	10.2
-5	.0	2.0	4.0	.1	.0	.0	43	.0	6.2
-6	.1	2.2	1.2	.0	.0	.0	24	.0	3.5
-7/-8	.7	2.9	1.9	.0	.0	.0	38	.0	5.5
-9/-10	.3	.9	.0	.0	.0	.0	8	.0	1.2
-11/-13	.1	.0	.0	.0	.0	.0	1	.0	.1
-14/-16	.1	.1	.0	.0	.0	.0	2	.0	.3
TOTAL	11		317		54		693	6	687
PCT	1.6	13.0	45.7	31.2	7.8	.7	100.0	.9	99.1

PERIOD: (OVER-ALL) 1963-1969

TABLE 18

PCT FREQ OF WIND SPEED (KTS) AND DIRECTION VERSUS SEA HEIGHTS (FT)

HGT	N							PCT	NE							PCT
	1-3	4-10	11-21	22-33	34-47	48+			1-3	4-10	11-21	22-33	34-47	48+		
<1	.5	.9	.0	.0	.0	.0	1.4	.0	.3	.0	.0	.0	.0	.0	.0	.3
1-2	.5	2.5	2.5	.0	.0	.0	5.6	.0	2.8	1.5	.0	.0	.0	.0	.0	4.3
3-4	.0	2.3	3.0	.0	.0	.0	5.3	.0	1.6	1.0	.5	.0	.0	.0	.0	3.2
5-6	.0	.0	1.0	.5	.0	.0	1.5	.0	.0	1.5	.0	.0	.0	.0	.0	1.5
7	.0	.0	1.0	.0	.0	.0	1.0	.0	.0	.5	.0	.0	.0	.0	.0	.5
8-9	.0	.0	.5	.0	.0	.0	.5	.0	.0	.0	.0	.0	.0	.0	.0	.0
10-11	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
12	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
13-16	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
17-19	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
20-22	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
23-25	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
26-32	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
33-40	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
41-48	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
49-60	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
61-70	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
71-86	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
87+	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
TOT PCT	1.0	5.7	8.1	.5	.0	.0	15.4	.0	4.7	4.6	.5	.0	.0	.0	.0	9.8

HGT	E							PCT	SE							PCT
	1-3	4-10	11-21	22-33	34-47	48+			1-3	4-10	11-21	22-33	34-47	48+		
<1	.0	1.9	.0	.0	.0	.0	1.9	.0	.3	.0	.0	.0	.0	.0	.0	.5
1-2	.0	2.3	.5	.0	.0	.0	2.8	.0	1.5	.0	.0	.0	.0	.0	.0	1.5
3-4	.0	1.4	2.4	.5	.0	.0	4.3	.0	.9	.0	.0	.0	.0	.0	.0	.9
5-6	.0	.5	.0	.0	.0	.0	.5	.0	.0	.0	.0	.0	.0	.0	.0	.0
7	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
8-9	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
10-11	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
12	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
13-16	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
17-19	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
20-22	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
23-25	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
26-32	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
33-40	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
41-48	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
49-60	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
61-70	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
71-86	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
87+	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
TOT PCT	.0	6.1	2.9	.5	.0	.0	9.5	.0	2.0	.9	.0	.0	.0	.0	.0	2.9



PERIOD: (OVER-ALL) 1963-1969

MAY

AREA 0013 SPENCER GULF  
35.25 137.0E

TABLE 18 (CONT)

PCT FREQ OF WIND SPEED (KTS) AND DIRECTION VERSUS SEA HEIGHTS (FT)

HGT	S							SW							PCT	TOTAL PCT
	1-3	4-10	11-21	22-33	34-47	48+	PCT	1-3	4-10	11-21	22-33	34-47	48+	PCT		
<1	.0	.5	.0	.0	.0	.0	.5	.0	.0	.0	.0	.0	.0	.0	.0	
1-2	.0	1.0	.0	.0	.0	.0	1.0	.0	2.3	.1	.0	.0	.0	.0	2.4	
3-4	.0	.9	2.2	.0	.0	.0	3.0	.0	2.4	4.3	.0	.0	.0	.0	6.7	
5-6	.0	.0	.9	.5	.0	.0	1.4	.0	.0	4.3	.0	.0	.0	.0	4.3	
7	.0	.0	.5	.0	.0	.0	.5	.0	.0	1.5	1.0	.0	.0	.0	2.5	
8-9	.0	.0	.0	.0	.0	.0	.0	.0	.0	.1	.5	.0	.0	.0	.6	
10-11	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.5	.0	.0	.5	
12	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
13-16	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
17-19	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
20-22	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
23-25	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
26-32	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
33-40	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
41-48	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
49-60	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
61-70	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
71-86	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
87+	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
TOT PCT	.0	2.4	3.6	.5	.0	.0	6.5	.0	4.7	10.4	1.5	.5	.0	.0	17.1	

HGT	W							NW							PCT	TOTAL PCT
	1-3	4-10	11-21	22-33	34-47	48+	PCT	1-3	4-10	11-21	22-33	34-47	48+	PCT		
<1	.0	.0	.0	.0	.0	.0	.0	.0	.5	.0	.0	.0	.0	.0	.5	
1-2	.0	4.4	1.8	.0	.0	.0	6.2	.0	4.4	.6	.0	.0	.0	.0	5.1	
3-4	.0	4.2	2.4	.0	.0	.0	6.6	.0	1.4	4.1	.0	.0	.0	.0	5.5	
5-6	.0	.0	4.7	1.0	.0	.0	5.7	.0	.0	2.3	.0	.0	.0	.0	2.3	
7	.0	.0	2.0	.4	.0	.0	2.4	.0	.0	1.5	.1	.0	.0	.0	1.6	
8-9	.0	.0	.4	.0	.0	.0	.4	.0	.0	.5	.5	.0	.0	.0	1.0	
10-11	.0	.0	.0	.5	.0	.0	.5	.0	.0	.0	.0	.0	.0	.0	.0	
12	.0	.0	.5	.0	.0	.0	.5	.0	.0	.0	.0	.0	.0	.0	.0	
13-16	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
17-19	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
20-22	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
23-25	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
26-32	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
33-40	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
41-48	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
49-60	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
61-70	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
71-86	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
87+	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
TOT PCT	.0	8.6	11.8	1.9	.0	.0	22.3	.0	6.3	9.0	.6	.0	.0	.0	99.5	

WIND SPEED (KTS) VS SEA HEIGHT (FT)

HGT	0-3	4-10	11-21	22-33	34-47	48+	PCT	TOT OBS
<1	1.5	5.0	.0	.0	.0	.0	6.5	
1-2	1.0	21.0	7.0	.0	.0	.0	29.0	
3-4	.0	14.0	20.0	1.0	.0	.0	35.0	
5-6	.0	.5	14.5	2.0	.0	.0	17.0	
7	.0	.0	7.0	1.5	.0	.0	8.5	
8-9	.0	.0	1.5	1.0	.0	.0	2.5	
10-11	.0	.0	.0	.5	.5	.0	1.0	
12	.0	.0	.5	.0	.0	.0	.5	
13-16	.0	.0	.0	.0	.0	.0	.0	
17-19	.0	.0	.0	.0	.0	.0	.0	
20-22	.0	.0	.0	.0	.0	.0	.0	
23-25	.0	.0	.0	.0	.0	.0	.0	
26-32	.0	.0	.0	.0	.0	.0	.0	
33-40	.0	.0	.0	.0	.0	.0	.0	
41-48	.0	.0	.0	.0	.0	.0	.0	
49-60	.0	.0	.0	.0	.0	.0	.0	
61-70	.0	.0	.0	.0	.0	.0	.0	
71-86	.0	.0	.0	.0	.0	.0	.0	
87+	.0	.0	.0	.0	.0	.0	.0	
TOT PCT	2.5	40.5	50.5	6.0	.5	.0	100.0	200

PERIOD: (OVER-ALL) 1949-1969

TABLE 19

PERCENT FREQUENCY OF WAVE HEIGHT (FT) VS WAVE PERIOD (SECONDS)

PERIOD (SEC)	<1	1-2	3-4	5-6	7	8-9	10-11	12	13-16	17-19	20-22	23-25	26-32	33-40	41-48	49-60	61-70	71-86	87+	TOTAL	MEAN HGT
<6	2.4	9.5	8.7	7.1	2.0	.8	.8	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	79	3
6-7	.0	1.6	3.6	7.9	4.4	2.0	2.4	.8	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	57	6
8-9	.0	1.2	4.8	5.2	2.8	4.4	2.4	.4	.4	.4	.0	.4	.0	.0	.0	.0	.0	.0	.0	54	7
10-11	.0	.4	.4	1.2	1.6	1.6	2.4	1.2	1.6	.0	.0	.4	.0	.0	.0	.0	.0	.0	.0	27	9
12-13	.0	.0	.4	.8	.0	.4	.4	.8	.0	.0	.4	.0	.4	.0	.0	.0	.0	.0	.0	9	11
>13	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	0	
INDET	1.6	1.6	.4	1.6	2.4	1.2	.4	.0	.4	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	24	5
TOTAL	10	36	46	60	33	26	22	8	6	1	1	2	1	0	0	0	0	0	0	293	6
PCT	4.0	14.3	18.3	23.8	13.1	10.3	8.7	3.2	2.4	.4	.4	.8	.4	.0	.0	.0	.0	.0	.0	100.0	

PERIOD: (PRIMARY) 1911-1969  
(OVER-ALL) 1859-1969

JUNE

AREA 0013 SPENCER GULF  
35.25 136.9E

TABLE 1

PERCENT FREQUENCY OF WEATHER OCCURRENCE BY WIND DIRECTION

PRECIPITATION TYPE										OTHER WEATHER PHENOMENA						
WIND DIR	RAIN	RAIN SHWR	DRZL	FRZG PCPN	SNOW	OTHER FRZN PCPN	HAIL	PCPN AT DB TIME	PCPN PAST HOUR	THDR LTNG	FGG WD PCPN	FGG WD PCPN PAST HR	SMOKE HAZE	SPRAY BLWG SNOW	NO SIG WFA	
N	6.7	2.8	.4	.0	.0	.0	.0	9.9	2.4	3.7	3.4	.0	.0	.0	81.5	
NE	1.5	3.4	1.5	.0	.0	.0	.0	6.3	.4	.0	3.0	.0	.0	.0	90.3	
E	2.8	.0	.0	.0	.0	.0	.0	2.8	4.1	.0	.0	.0	.0	.0	93.1	
SE	2.2	7.6	2.2	.0	.0	.0	.0	12.0	1.1	.0	.0	.0	.0	.0	87.0	
S	3.9	17.1	.0	.0	.0	.0	.0	21.0	1.6	.0	3.9	.0	.0	.0	73.5	
SW	2.5	25.0	1.7	.0	.0	.0	.0	29.2	3.8	.0	2.5	.0	.0	.0	64.4	
W	4.4	17.8	.0	.0	.0	.0	.0	22.1	3.1	1.9	.0	.0	.0	.0	73.5	
NW	5.8	3.6	.6	.0	.0	.0	.0	11.0	1.5	6.3	.0	.0	.0	.0	85.4	
VAR	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
CALM	10.0	.0	.0	.0	.0	.0	.0	10.0	.0	.0	.0	.0	.0	.0	90.0	
TOT PCT	4.4	9.2	.7	.0	.0	.0	.0	14.4	2.1	2.0	1.8	.0	.0	.0	80.6	
TOT OBS:	563															

TABLE 2

PERCENT FREQUENCY OF WEATHER OCCURRENCE BY HOUR

HOUR (GMT)	PRECIPITATION TYPE							OTHER WEATHER PHENOMENA								
	RAIN	RAIN SHWR	DRZL	FRZG PCPN	SNOW	OTHER FRZN PCPN	HAIL	PCPN AT OB TIME	PCPN PAST HOUR	THDR LTNG	FGG WD PCPN	FGG WD PCPN PAST HR	SMOKE HAZE	SPRAY BLWG BLWG SNOW	DUST DUST	NO SIG WEA
00003	1.5	12.1	1.5	.0	.0	.0	.0	15.2	3.0	.0	1.5	.0	.0	.0	.0	80.3
06009	1.0	3.8	1.0	.0	.0	.0	.0	5.8	1.0	.0	1.0	.0	.0	.0	.0	92.3
12015	7.6	8.6	.5	.0	.0	.0	.0	16.7	1.9	3.8	2.4	.0	.0	.0	.0	77.1
18021	4.5	11.9	.0	.0	.0	.0	.0	16.4	2.2	2.2	1.5	.0	.0	.0	.0	78.4
TOT PCT TOT OBS:	4.3 580	9.3	.7	.0	.0	.0	.0	14.3	2.1	1.9	1.7	.0	.0	.0	.0	80.9

TABLE 3

PERCENTAGE FREQUENCY OF WIND DIRECTION BY SPEED AND BY HOUR

WIND DIR	WIND SPEED (KNOTS)							TOTAL OBS	PCT FREQ	MEAN SPD	HOUR (GMT)							
	0-3	4-10	11-21	22-33	34-47	48+					00	03	06	09	12	15	18	21
N	1.0	7.9	8.3	1.9	.6	.0		19.8	12.9		20.7	22.5	24.1	27.3	14.7	18.9	19.7	27.8
NE	.9	6.4	4.3	.8	.2	.0		12.6	11.3		11.8	9.6	15.7	4.5	12.1	14.5	12.2	14.7
E	.8	3.8	3.0	.5	.0	.0		8.1	10.4		8.3	7.3	6.3	18.2	8.4	10.2	7.8	.0
SE	.2	4.4	3.1	.2	*	.0		7.9	10.3		3.8	5.6	8.9	13.6	10.9	8.6	7.2	15.7
S	.6	5.2	4.1	.7	.1	.0		10.8	11.6		10.3	12.6	8.5	4.5	12.2	10.2	10.4	15.7
SW	.9	4.8	5.2	1.3	.3	.0		12.5	13.1		8.8	12.9	13.3	18.2	13.3	15.3	10.5	11.1
W	.8	4.5	5.3	1.3	.6	*		12.6	14.4		15.0	11.9	7.6	.0	13.8	9.2	17.7	11.1
NW	.6	5.0	6.3	1.2	.9	*		14.0	14.5		21.2	16.9	13.8	13.6	12.8	11.1	11.3	.0
VAR	.0	.0	.0	.0	.0	.0		.0	.0		.0	.0	.0	.0	.0	.0	.0	.0
CALM	1.6							1.6	.0		.0	.7	1.9	.0	1.8	1.9	3.2	.0
TOT OBS	77	434	404	82	29	1	1032		12.4		133	151	158	11	225	157	188	9
TOT PCT	7.5	42.1	39.6	7.9	2.8	.1		100.0			100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0

TABLE 3A

WIND DIR	WIND SPEED (KNOTS)				41+	TOTAL OBS	PCT FREQ	MEAN SPD	HOUR (GMT)			
	0-6	7-16	17-27	28-40					00	06	12	18
									03	09	15	21
N	4.0	10.5	4.5	.7	.2		19.8	12.9	21.7	24.3	16.4	20.1
NE	3.2	6.6	2.4	.3	.0		12.6	11.3	10.7	14.9	13.1	12.4
E	2.6	4.1	1.3	*	.0		8.1	10.4	7.7	7.1	9.2	7.5
SE	2.6	4.2	1.1	.1	.0		7.9	10.3	4.8	9.2	9.9	7.6
S	2.7	5.5	2.1	.4	.0		10.8	11.6	11.5	8.3	11.4	10.7
SW	3.0	4.6	4.2	.7	.0		12.5	13.1	11.0	13.6	14.1	10.5
W	2.2	5.8	3.5	.9	.2		12.6	14.4	13.4	7.1	11.9	17.4
NW	2.6	6.5	3.8	.9	.3		14.0	14.5	18.9	13.8	12.1	10.8
VAR	.0	.0	.0	.0	.0		.0	.0	.0	.0	.0	.0
CALM	1.6						1.6	.0	.4	1.8	1.8	3.0
TOT OBS	254	493	236	42	7	1032		12.4	284	169	382	197
TOT PCT	24.6	47.8	22.9	4.1	.7		100.0		100.0	100.0	100.0	100.0

PERIOD: (PRIMARY) 1911-1969  
(OVER-ALL) 1859-1969

JUNE

AREA 0013 SPENCER GULF  
35.25 136.9E

TABLE 4

PERCENTAGE FREQUENCY OF WIND SPEED BY HOUR (GMT)

HOUR	CALM	1-3	4-10	WIND SPEED (KNOTS)			48+	MEAN	PCT FREQ	TOTAL OBS
				11-21	22-33	34-47				
00003	.4	5.3	38.4	43.3	8.5	3.9	.4	13.4	100.0	284
06009	1.8	10.7	43.2	36.1	5.9	2.4	.0	11.1	100.0	169
12015	1.8	5.8	45.5	39.0	6.0	1.8	.0	11.6	100.0	382
18021	3.0	2.5	39.6	38.6	12.7	3.6	.0	13.5	100.0	197
TOT	17	60	434	409	82	29	1	12.4		1032
PCT	1.6	5.8	42.1	39.6	7.9	2.8	.1	100.0		

TABLE 5

PCT FREQ OF TOTAL CLOUD AMOUNT (EIGHTHS)  
BY WIND DIRECTION

WIND DIR	0-2	3-4	5-7	8 & OBSCD	TOTAL OBS	MEAN CLOUD COVER
N	7.5	2.6	6.6	3.6		4.0
NE	5.0	1.5	2.7	6.2		4.9
E	3.7	1.0	1.4	1.5		3.4
SE	2.0	.0	1.0	3.0		5.3
S	2.7	2.0	3.4	1.0		4.3
SW	1.9	2.4	3.2	.6		4.5
W	5.1	5.6	5.0	2.2		4.2
NW	4.5	2.4	3.6	1.7		4.0
VAR	.0	.0	.0	.0		.0
CALM	3.0	.0	.5	.0		1.1
TOT OBS	71	35	55	40	201	4.2
TOT PCT	35.3	17.4	27.4	19.9	100.0	

TABLE 6

PERCENTAGE FREQUENCY OF CEILING HEIGHTS (FT, NH >4/8)  
AND OCCURRENCE OF NH <5/8 BY WIND DIRECTION

000	150	300	600	1000	2000	3500	5000	6500	8000+	NH <5/8	TOTAL
149	299	599	999	1999	3499	4999	6499	7999		ANY HGT	OBS
.0	.0	.0	2.2	2.7	.5	.0	.0	.0	.0	14.8	
.0	.0	.0	.0	5.2	1.5	.5	.0	.0	.0	8.2	
.0	.0	.0	.2	1.2	.5	.0	.0	.0	.0	5.6	
.0	.0	.0	1.7	.2	1.5	.5	.0	.0	.0	2.0	
.0	.0	.0	.0	2.5	.0	.5	.0	.0	.0	6.1	
.0	.0	.5	.5	2.0	.2	.0	.0	.0	.0	4.9	
.0	.0	.0	.9	2.7	.7	1.0	.5	.0	.0	12.1	
.0	.0	.0	.4	1.2	2.0	.5	.5	.0	.0	7.6	
.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	3.5	
.0	0	1	12	36	14	6	2	0	0	130	201
.0	.0	.5	6.0	17.9	7.0	3.0	1.0	.0	.0	64.7	102.3

TABLE 7

CUMULATIVE PCT FREQ OF SIMULTANEOUS OCCURRENCE  
OF CEILING HEIGHT (NH >4/8) AND VSBY (NM)

CEILING (FEET)	VSBY (NM)							
	= OR >10	= OR >5	= OR >2	= OR >1	= OR >1/2	= OR >1/4	= OR >50YD	= OR >0
= OR >6500	.0	.0	.0	.0	.0	.0	.0	.0
= OR >5000	.5	1.0	1.0	1.0	1.0	1.0	1.0	1.0
= OR >3500	3.9	4.4	4.4	4.4	4.4	4.4	4.4	4.4
= OR >2000	9.2	11.2	11.2	11.2	11.2	11.2	11.2	11.2
= OR >1000	23.8	29.1	29.1	29.1	29.1	29.1	29.1	29.1
= OR >600	28.2	35.0	35.0	35.0	35.0	35.0	35.0	35.0
= OR >300	28.6	35.4	35.4	35.4	35.4	35.4	35.4	35.4
= OR >150	28.6	35.4	35.4	35.4	35.4	35.4	35.4	35.4
= OR >0	28.6	35.4	35.4	35.4	35.4	35.4	35.4	35.4
TOTAL	59	73	73	73	73	73	73	73

TOTAL NUMBER OF OBS: 206

PCT FREQ NH <5/8 64.6

TABLE 7A

PERCENTAGE FREQ OF LOW CLOUDS (EIGHTHS)

0	1	2	3	4	5	6	7	8	OBSCD	TOTAL OBS
14.3	10.8	13.9	13.4	8.7	10.4	5.2	6.1	17.3	.0	231

PERIOD: (PRIMARY) 1911-1969  
(OVER-ALL) 1859-1969

JUNE

AREA 0013 SPENCER GULF  
35.25 136.9E

TABLE 8

PERCENT FREQ OF WIND DIRECTION VS OCCURRENCE OR NON-OCCURRENCE OF  
PRECIPITATION WITH VARYING VALUES OF VISIBILITY

VISBY (NM)		N	NE	E	SE	S	SW	W	NW	VAR	CALM	PCT	TOTAL OBS	
<1/2	PCP	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0		
	NO PCP	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0		
	TOT %	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0		
1/2<1	PCP	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0		
	NO PCP	.6	.0	.0	.0	.0	.0	.0	.1	.0	.0	.7		
	TOT %	.6	.0	.0	.0	.0	.0	.0	.1	.0	.0	.7		
1<2	PCP	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0		
	NO PCP	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0		
	TOT %	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0		
2<5	PCP	.2	.0	.0	.0	.0	.0	.0	.0	.0	.0	.2		
	NO PCP	.0	.0	.0	.0	.2	.0	.2	.0	.0	.0	.4		
	TOT %	.2	.0	.0	.0	.2	.0	.2	.0	.0	.0	.5		
5<10	PCP	1.9	.4	.2	.5	1.9	2.4	2.7	1.6	.0	.0	11.5		
	NO PCP	9.0	4.0	1.6	3.6	4.6	4.4	4.5	7.7	.0	.5	40.0		
	TOT %	10.8	4.4	1.8	4.2	6.5	6.7	7.2	9.4	.0	.5	51.5		
10+	PCP	.0	.4	.0	.4	.5	.7	.5	.0	.0	.2	2.7		
	NO PCP	9.0	7.1	4.7	3.6	4.2	3.1	6.4	5.5	.0	1.1	44.6		
	TOT %	9.0	7.5	4.7	4.0	4.8	3.7	6.9	5.5	.0	1.2	47.2		
TOT OBS														563
TOT PCT														
		20.6	11.9	6.4	8.2	11.4	10.5	14.3	14.9	.0	1.8	100.0		

TABLE 9

PERCENT FREQ OF WIND DIRECTION VS WIND SPEED  
WITH VARYING VALUES OF VISIBILITY

VISBY (NM)	SPD KTS	N	NE	E	SE	S	SW	W	NW	VAR	CALM	PCT	TOTAL OBS
<1/2	0-3	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
	4-10	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
	11-21	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
	22+	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
	TOT %	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
1/2<1	0-3	.1	.0	.0	.0	.0	.0	.0	.1	.0	.0	.2	.2
	4-10	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
	11-21	.5	.0	.0	.0	.0	.0	.0	.0	.0	.0	.5	.5
	22+	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
	TOT %	.5	.0	.0	.0	.0	.0	.0	.1	.0	.0	.6	.6
1<2	0-3	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
	4-10	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
	11-21	.0	.0	.0	.0	.1	.1	.0	.0	.0	.0	.2	.2
	22+	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
	TOT %	.0	.0	.0	.0	.1	.1	.0	.0	.0	.0	.2	.2
2<5	0-3	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
	4-10	.0	.0	.0	.2	.2	.2	.2	.2	.0	.0	.8	.8
	11-21	.2	.0	.0	.1	.2	.0	.1	.1	.0	.0	.6	.6
	22+	.1	.1	.0	.0	.0	.0	.0	.0	.0	.0	.2	.2
	TOT %	.2	.1	.0	.2	.4	.2	.2	.2	.0	.0	1.5	1.5
5<10	0-3	.4	.2	.2	.0	.2	.2	.1	.2	.0	.5	2.0	2.0
	4-10	3.5	1.9	.6	1.9	2.0	1.5	1.9	2.4	.0	.0	15.9	15.9
	11-21	3.4	1.3	.8	2.0	2.9	3.7	3.6	3.7	.0	.0	21.3	21.3
	22+	2.0	.4	.1	.2	.6	.3	.5	1.8	.0	.0	5.9	5.9
	TOT %	9.4	3.8	1.7	4.0	5.7	5.7	6.1	8.1	.0	.5	45.0	45.0
10+	0-3	.5	.2	.5	.0	.0	.0	.2	.3	.0	1.1	2.6	2.6
	4-10	3.2	3.7	2.6	2.6	3.8	2.9	2.5	2.5	.0	.0	23.7	23.7
	11-21	5.8	3.7	1.8	1.6	1.7	2.3	3.1	3.4	.0	.0	23.4	23.4
	22+	.7	.4	.2	.1	.2	.1	.8	.5	.0	.0	3.0	3.0
	TOT %	10.2	7.9	5.1	4.2	5.8	5.4	6.5	6.7	.0	1.1	52.7	52.7
TOT OBS													
TOT PCT													
		20.3	11.8	6.8	8.5	12.0	11.3	12.8	15.1	.0	1.5	100.0	662

JUNE

PERIOD: (PRIMARY) 1911-1969  
(OVER-ALL) 1859-1969AREA 0013 SPENCER GULF  
35.25 136.9E

TABLE 10

PERCENT FREQUENCY OF CEILING HEIGHTS (FEET, NH >4/8) AND  
OCCURRENCE OF NH <5/8 BY HOUR

HR (GMT)	000 149	150 299	300 599	600 999	1000 1999	2000 3499	3500 4999	5000 6499	6500 7999	8000+	TOTAL OBS	NH <5/8 ANY HGT	TOTAL OBS
00003	.0	.0	2.5	10.0	20.0	7.5	2.5	2.5	.0	.0	45.0	55.0	40
06009	.0	.0	.0	8.1	2.7	10.8	8.1	.0	.0	.0	29.7	70.3	37
12015	.0	.0	.0	4.0	20.0	5.3	4.0	1.3	.0	.0	34.7	65.3	75
18021	.0	.0	.0	3.2	21.0	4.8	.0	.0	.0	.0	29.0	71.0	62
TOT	0	0	1	12	37	14	7	2	0	0	73	141	214
PCT	.0	.0	.5	5.6	17.3	6.5	3.3	.9	.0	.0	34.1	65.9	100.0

TABLE 11

PERCENT FREQUENCY VSBY (NM) BY HOUR

HR (GMT)	<1/2	1/2<1	1<2	2<5	5<10	10+	TOTAL OBS
00003	.0	1.3	.7	.7	49.7	47.7	151
06009	.8	.0	.0	.8	45.1	53.3	122
12015	.0	.4	.0	1.9	46.4	51.3	203
18021	.0	.7	.0	2.1	36.8	60.4	144
TOT	1	4	1	10	305	359	680
PCT	.1	.6	.1	1.5	44.9	52.8	100.0

TABLE 12

CUMULATIVE PCT FREQ OF RANGES OF VSBY (NM) AND/OR  
CEILING HGT (FEET, NH >4/8), BY HOUR

HR (GMT)	<150 <50YD	<600 <1	<1000 <5	1000+ 4005+	NH <5/8 AND 5+	TOTAL OBS
00003	.0	2.5	12.5	32.5	55.0	40
06009	.0	.0	8.0	22.9	68.6	35
12015	.0	.0	4.2	31.9	63.9	72
18021	.0	.0	3.4	27.1	69.5	59
TOT	0	1	13	60	133	206
PCT	.0	.5	6.3	29.1	64.6	100.0

TABLE 13

PERCENT FREQUENCY OF RELATIVE HUMIDITY BY TEMP

TEMP F	0-29	30-39	40-49	50-59	60-69	70-79	80-89	90-100	TOTAL OBS	PCT FREQ
65/69	.0	.0	.0	.0	.3	.6	.0	.0	3	.9
60/64	.0	.0	.0	.3	4.6	9.7	8.2	2.1	82	24.9
55/59	.0	.0	.0	3.0	9.1	22.2	20.4	5.5	198	60.2
50/54	.0	.0	.0	.0	4.0	4.6	3.6	1.5	45	13.7
45/49	.0	.0	.0	.0	.0	.3	.0	.0	1	.3
TOTAL	0	0	0	11	59	123	106	30	329	100.0
PCT	.0	.0	.0	3.3	17.9	37.4	32.2	9.1		

TABLE 14

PERCENT FREQUENCY OF WIND DIRECTION BY TEMP

	N	NE	E	SE	S	SW	W	NW	VAR	CALM
65	.5	.2	.0	.0	.2	.2	.0	.0	.0	.0
60	8.9	2.4	1.4	.9	.3	.9	3.8	5.5	.0	.9
55	11.4	7.1	3.3	5.0	8.0	6.5	11.2	6.3	.0	1.5
50	.8	2.6	.9	1.7	4.1	1.7	1.4	.2	.0	.3
45	.0	.0	.0	.3	.0	.0	.0	.0	.0	.0
TOTAL	21.5	12.2	5.5	7.9	12.5	9.3	16.3	12.0	.0	2.7

TABLE 15

MEANS, EXTREMES AND PERCENTILES OF TEMP (DEG F) BY HOUR

HR (GMT)	MAX	99%	95%	50%	5%	1%	MIN	MEAN	TOTAL OBS
00003	66	64	63	57	52	49	48	57.2	282
06009	65	64	63	58	52	50	50	57.8	167
12015	66	63	61	56	52	50	48	56.6	384
18021	64	63	62	56	51	49	49	56.4	199
TOT	66	64	62	57	52	50	48	56.9	1032

TABLE 16

PERCENT FREQUENCY OF RELATIVE HUMIDITY BY HOUR

HR (GMT)	0-29	30-59	60-69	70-79	80-89	90-100	MEAN	TOTAL OBS
00003	.0	5.7	17.1	40.0	27.1	10.0	77	70
06009	.0	5.3	22.8	36.8	29.8	5.3	75	57
12015	.0	2.4	17.6	38.4	32.8	8.8	77	124
18021	.0	1.1	17.0	31.8	39.8	10.2	79	88
TOT	0	11	62	125	112	30	77	340



PERIOD: (PRIMARY) 1911-1969  
(OVER-ALL) 1859-1969

JUNE

AREA 0013 SPENCER GULF  
35.25 136.9E

TABLE 17

PCT FREQ OF AIR TEMPERATURE (DEG F) AND THE OCCURRENCE OF FOG (WITHOUT PRECIPITATION)  
VS AIR-SEA TEMPERATURE DIFFERENCE (DEG F)

AIR-SEA TMP DIF	45 48	49 52	53 56	57 60	61 64	65 68	TOT	W FOG	WD FOG
5	.0	.0	.2	.2	.4	.0	4	.0	.8
4	.0	.0	.0	.0	.6	.0	3	.0	.6
3	.0	.0	.0	.8	1.2	.2	11	.0	2.2
2	.0	.2	.0	1.8	3.2	.0	26	.2	5.0
1	.0	.0	.4	3.6	2.2	.0	31	.2	6.0
0	.0	.0	2.4	7.8	4.6	.0	74	.0	14.8
-1	.0	.0	2.4	7.4	2.2	.2	61	.0	12.2
-2	.0	.4	4.6	7.4	1.4	.0	69	.8	13.2
-3	.0	.4	6.4	6.6	.2	.0	68	.2	13.4
-4	.0	1.0	7.4	3.4	.4	.0	61	.4	11.8
-5	.0	1.0	6.4	1.4	.2	.0	45	.2	8.8
-6	.0	.8	2.4	1.4	.0	.0	23	.0	4.6
-7/-8	.2	1.0	2.6	.4	.0	.0	21	.0	4.2
-9/-10	.2	.0	.2	.0	.0	.0	2	.0	.4
-11/-13	.0	.2	.0	.0	.0	.0	1	.0	.2
TOTAL	2	25	177	211	83	2	500	9	491
PCT	.4	5.0	35.4	42.2	16.6	.4	100.0	1.8	98.2

PERIOD: (OVER-ALL) 1963-1969

TABLE 18

PCT FREQ OF WIND SPEED (KTS) AND DIRECTION VERSUS SEA HEIGHTS (FT)

HGT	1-3	4-10	11-21	22-33	34-47	48+	PCT	1-3	4-10	11-21	22-33	34-47	48+	PCT
<1	.0	.7	.0	.0	.0	.0	.7	.0	.0	.0	.0	.0	.0	.0
1-2	.0	3.5	1.5	.0	.0	.0	5.0	.0	1.1	.0	.0	.0	.0	1.1
3-4	.0	2.2	7.3	.0	.0	.0	9.5	.0	2.2	3.2	.0	.0	.0	5.4
5-6	.0	.0	5.8	.0	.0	.0	5.8	.0	.7	1.3	.0	.0	.0	2.1
7	.0	.0	.0	.0	.0	.0	.0	.0	.0	.7	.0	.0	.0	.7
8-9	.0	.0	.0	1.9	.7	.0	2.6	.0	.0	.0	.0	.0	.0	.0
10-11	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
12	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
13-16	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
17-19	.0	.0	.0	.6	.0	.0	.6	.0	.0	.0	.0	.0	.0	.0
20-22	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
23-25	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
26-32	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
33-40	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
41-48	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
49-60	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
61-70	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
71-86	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
87+	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
TOT PCT	.0	6.5	14.6	2.4	.7	.0	24.3	.0	4.1	5.2	.0	.0	.0	9.3

HGT	1-3	4-10	11-21	22-33	34-47	48+	PCT	1-3	4-10	11-21	22-33	34-47	48+	PCT
<1	.7	.7	.0	.0	.0	.0	1.5	.0	.7	.0	.0	.0	.0	.7
1-2	.0	3.4	1.5	.0	.0	.0	4.9	.0	1.5	.7	.0	.0	.0	2.2
3-4	.0	.0	.6	.0	.0	.0	.6	.0	.7	1.5	.0	.0	.0	2.2
5-6	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
7	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
8-9	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
10-11	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
12	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
13-16	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
17-19	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
20-22	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
23-25	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
26-32	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
33-40	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
41-48	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
49-60	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
61-70	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
71-86	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
87+	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
TOT PCT	.7	4.1	2.1	.0	.0	.0	6.9	.0	3.0	2.2	.0	.0	.0	5.2

PERIOD: (OVER-ALL) 1963-1969

JUNE

AREA 0013 SPENCER GULF  
35.25 136.9E

TABLE 18 (CONT)

PCT FREQ OF WIND SPEED (KTS) AND DIRECTION VERSUS SEA HEIGHTS (FT)

HGT	S							PCT	SW							PCT
	1-3	4-10	11-21	22-33	34-47	48+			1-3	4-10	11-21	22-33	34-47	48+		
<1	.0	2.1	.0	.0	.0	.0		2.1	.0	.9	.0	.0	.0	.0		.9
1-2	.0	3.7	.0	.0	.0	.0		3.7	.0	1.9	.0	.0	.0	.0		1.9
3-4	.0	1.5	.0	.0	.0	.0		1.5	.0	.0	1.7	.0	.0	.0		1.7
5-6	.0	.0	.0	.0	.0	.0		.0	.0	.0	.0	.0	.0	.0		.0
7	.0	.0	.7	.0	.0	.0		.7	.0	.0	.0	.0	.0	.0		.7
8-9	.0	.0	.0	.0	.0	.0		.0	.0	.0	.7	.0	.0	.0		.7
10-11	.0	.0	.0	.0	.0	.0		.0	.0	.0	.0	.0	.0	.0		.0
12	.0	.0	.0	.0	.0	.0		.0	.0	.0	.0	.0	.0	.0		.0
13-16	.0	.0	.0	.0	.0	.0		.0	.0	.0	.0	.0	.0	.0		.0
17-19	.0	.0	.0	.0	.0	.0		.0	.0	.0	.0	.0	.0	.0		.0
20-22	.0	.0	.0	.0	.0	.0		.0	.0	.0	.0	.2	.0	.0		.2
23-25	.0	.0	.0	.0	.0	.0		.0	.0	.0	.0	.0	.0	.0		.0
26-32	.0	.0	.0	.0	.0	.0		.0	.0	.0	.0	.0	.0	.0		.0
33-40	.0	.0	.0	.0	.0	.0		.0	.0	.0	.0	.0	.0	.0		.0
41-48	.0	.0	.0	.0	.0	.0		.0	.0	.0	.0	.0	.0	.0		.0
49-60	.0	.0	.0	.0	.0	.0		.0	.0	.0	.0	.0	.0	.0		.0
61-70	.0	.0	.0	.0	.0	.0		.0	.0	.0	.0	.0	.0	.0		.0
71-86	.0	.0	.0	.0	.0	.0		.0	.0	.0	.0	.0	.0	.0		.0
87+	.0	.0	.0	.0	.0	.0		.0	.0	.0	.0	.0	.0	.0		.0
TOT PCT	.0	7.3	.7	.0	.0	.0		8.0	.0	2.8	2.4	.0	.2	.0		5.4

HGT	W							PCT	NW							PCT	TOTAL PCT
	1-3	4-10	11-21	22-33	34-47	48+			1-3	4-10	11-21	22-33	34-47	48+			
<1	.0	1.5	.0	.0	.0	.0		1.5	.0	.0	.0	.0	.0	.0		.7	
1-2	.0	3.9	.0	.0	.0	.0		4.7	.0	1.9	.0	.0	.0	.0		1.9	
3-4	.0	2.8	4.7	.0	.0	.0		7.3	.0	1.9	2.1	.0	.0	.0		3.9	
5-6	.0	.0	1.5	.0	.0	.0		1.5	.0	.0	2.6	.0	.7	.0		3.4	
7	.0	.0	2.1	.7	.0	.0		2.8	.0	.0	2.4	.0	.0	.0		2.4	
8-9	.0	.0	.7	.0	.7	.0		1.5	.0	.0	.7	.4	1.5	.0		2.6	
10-11	.0	.0	.0	.0	.7	.0		.7	.0	.0	.0	.7	.0	.0		.7	
12	.0	.0	.0	.0	.0	.0		.0	.0	.0	.0	.0	.0	.0		.0	
13-16	.0	.0	.0	.0	.0	.0		.0	.0	.0	.0	.0	.0	.0		.0	
17-19	.0	.0	.0	.0	.0	.0		.0	.0	.0	.0	.2	.0	.0		.2	
20-22	.0	.0	.0	.0	.6	.0		.6	.0	.0	.0	.0	.0	.0		.0	
23-25	.0	.0	.0	.0	.0	.0		.0	.0	.0	.0	.0	.0	.0		.0	
26-32	.0	.0	.0	.0	.0	.0		.0	.0	.0	.0	.0	.0	.0		.0	
33-40	.0	.0	.0	.0	.0	.0		.0	.0	.0	.0	.0	.0	.0		.0	
41-48	.0	.0	.0	.0	.0	.0		.0	.0	.0	.0	.0	.0	.0		.0	
49-60	.0	.0	.0	.0	.0	.0		.0	.0	.0	.0	.0	.0	.0		.0	
61-70	.0	.0	.0	.0	.0	.0		.0	.0	.0	.0	.0	.0	.0		.0	
71-86	.0	.0	.0	.0	.0	.0		.0	.0	.0	.0	.0	.0	.0		.0	
87+	.0	.0	.0	.0	.0	.0		.0	.0	.0	.0	.0	.0	.0		.0	
TOT PCT	.0	8.0	9.7	.7	2.1	.0		20.5	.0	4.5	7.8	1.3	2.2	.0		16.9	95.5

WIND SPEED (KTS) VS SEA HEIGHT (FT)

HGT	0-3	4-10	11-21	22-33	34-47	48+	PCT	TOT DBS
<1	5.2	8.1	.0	.0	.0	.0	13.3	
1-2	.0	20.7	4.4	.0	.0	.0	25.2	
3-4	.0	11.1	20.7	.0	.0	.0	31.9	
5-6	.0	.7	11.1	.0	.7	.0	12.6	
7	.0	.0	5.9	.7	.0	.0	6.7	
8-9	.0	.0	2.2	2.2	3.0	.0	7.4	
10-11	.0	.0	.0	.7	.7	.0	1.5	
12	.0	.0	.0	.0	.0	.0	.0	
13-16	.0	.0	.0	.0	.0	.0	.0	
17-19	.0	.0	.0	.7	.0	.0	.7	
20-22	.0	.0	.0	.0	.7	.0	.7	
23-25	.0	.0	.0	.0	.0	.0	.0	
26-32	.0	.0	.0	.0	.0	.0	.0	
33-40	.0	.0	.0	.0	.0	.0	.0	
41-48	.0	.0	.0	.0	.0	.0	.0	
49-60	.0	.0	.0	.0	.0	.0	.0	
61-70	.0	.0	.0	.0	.0	.0	.0	
71-86	.0	.0	.0	.0	.0	.0	.0	
87+	.0	.0	.0	.0	.0	.0	.0	
TOT PCT	5.2	40.7	44.4	4.4	5.2	.0	100.0	135

PERIOD: (OVER-ALL) 1949-1969

TABLE 19

PERCENT FREQUENCY OF WAVE HEIGHT (FT) VS WAVE PERIOD (SECONDS)

PERIOD (SEC)	<6	6-7	8-9	10-11	12	13-16	17-19	20-22	23-25	26-32	33-40	41-48	49-60	61-70	71-86	87+	TOTAL	MEAN HGT
<6	4.3	12.5	11.4	2.7	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	57	2
6-7	.0	.5	7.1	10.9	4.3	2.7	1.6	.5	.5	.0	.0	.0	.0	.0	.0	.0	52	6
8-9	.0	.0	1.1	3.3	1.6	5.4	2.2	.0	1.6	1.1	.0	.0	.0	.0	.0	.0	30	8
10-11	.0	.5	.0	1.1	2.2	2.7	2.2	1.1	.0	.0	.0	.0	.0	.0	.0	.0	19	8
12-13	.0	.0	.5	.5	.0	.5	1.1	1.1	.0	.0	.0	.0	.0	.0	.0	.0	7	10
13-14	.0	.0	.0	.0	.5	.0	.0	.0	.5	.0	.0	.0	.0	.0	.0	.0	2	14
14-15	2.7	.5	3.3	.5	1.6	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	18	3
TOTAL	13	26	43	35	19	21	13	5	6	2	1	0	0	0	0	0	184	8
PCT	7.1	14.1	23.4	19.0	10.3	11.4	7.1	2.7	3.3	1.1	.5	.0	.0	.0	.0	.0	100.0	

PERIOD: (PRIMARY) 1911-1969  
(OVER-ALL) 1878-1969

JULY

AREA 0013 SPENCER GULF  
35.25 136.9E

TABLE 1

PERCENT FREQUENCY OF WEATHER OCCURRENCE BY WIND DIRECTION

WIND DIR	PRECIPITATION TYPE							OTHER WEATHER PHENOMENA							
	RAIN	RAIN SHWR	DRZL	FRZG PCPN	SNOW	OTHER FRZN PCPN	HAIL	PCPN AT DB TIME	PCPN PAST HOUR	THDR LTNG	FOG WD PCPN	FOG WD PCPN PAST HR	SMOKE HAZE	SPRAY BLWG DUST	NO SIG WEA
N	3.1	4.4	.0	.0	.0	.0	.0	7.4	.7	2.6	.0	.0	.7	.0	88.6
NE	4.2	1.4	2.1	.0	.0	.0	.0	7.6	.3	.0	2.8	.0	1.4	.0	87.8
E	.0	.0	7.4	.0	.0	.0	.0	7.4	2.2	.0	3.0	.0	.0	.0	87.4
SE	1.5	16.5	.0	.0	.0	.0	.0	18.0	.0	.0	.0	.0	.0	.0	82.0
S	2.8	12.4	2.3	.0	.0	.0	.0	17.5	.0	.0	.0	.0	.0	.0	82.5
SW	4.4	19.9	.0	.0	.0	.0	.0	24.4	2.5	.0	.0	.0	.0	.0	73.1
W	9.2	16.1	1.3	.0	.0	.0	.0	26.6	7.6	3.3	.0	1.0	.0	.0	63.5
NW	3.1	6.6	.0	.0	.0	.0	.0	9.7	5.2	3.3	.0	.2	.2	.0	81.8
VAR	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
CALM	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	100.0
TOT PCT	3.9	9.2	1.1	.0	.0	.0	.0	14.2	2.7	1.6	.5	.2	.4	.0	80.9
TOT OBS:	564														

TABLE 2

PERCENT FREQUENCY OF WEATHER OCCURRENCE BY HOUR

HOUR (GMT)	PRECIPITATION TYPE							OTHER WEATHER PHENOMENA							
	RAIN	RAIN SHWR	DRZL	FRZG PCPN	SNOW	OTHER FRZN PCPN	HAIL	PCPN AT DB TIME	PCPN PAST HOUR	THDR LTNG	FOG WD PCPN	FOG WD PCPN PAST HR	SMOKE HAZE	SPRAY BLWG DUST	NO SIG WEA
00003	4.2	8.3	.0	.0	.0	.0	.0	12.5	2.5	.0	.8	.0	.8	.0	83.3
06009	1.8	8.3	.9	.0	.0	.0	.0	11.0	5.5	.0	.9	.0	.0	.0	82.6
12015	4.0	9.3	1.8	.0	.0	.0	.0	15.0	1.3	2.2	.9	.4	.0	.0	80.6
18021	6.3	10.2	.8	.0	.0	.0	.0	17.3	3.1	3.1	.0	.0	.8	.0	76.4
TOT PCT	4.1	9.1	1.0	.0	.0	.0	.0	14.2	2.7	1.5	.7	.2	.3	.0	80.6
TOT OBS:	583														

TABLE 3

PERCENTAGE FREQUENCY OF WIND DIRECTION BY SPEED AND BY HOUR

WIND DIR	WIND SPEED (KNOTS)							TOTAL OBS	PCT FREQ	MEAN SPD	HOUR (GMT)							
	0-3	4-10	11-21	22-33	34-47	48+					00	03	06	09	12	15	18	21
N	.5	6.8	8.3	2.3	.2	.0		18.1	13.9		17.4	19.4	20.8	18.8	16.5	16.8	18.3	20.0
NE	.6	5.2	3.9	.4	.0	.1		10.2	11.0		12.5	10.8	7.8	21.9	9.7	8.4	11.5	.0
E	.7	2.4	2.2	.3	.0	.0		5.6	10.3		7.8	8.3	5.0	9.4	4.1	6.2	3.7	.0
SE	.2	3.4	1.4	.*	.0	.0		5.2	9.3		4.1	4.9	6.0	.0	5.0	6.5	4.7	.0
S	.9	3.9	2.9	1.1	.1	.0		8.9	12.3		8.6	8.7	7.7	18.8	10.1	9.3	8.2	.0
SW	.2	5.1	5.2	2.5	.5	.0		13.5	14.9		15.5	11.1	13.5	18.8	14.8	13.7	11.4	40.0
W	1.0	5.6	4.6	3.1	1.2	.2		15.8	16.0		12.5	13.5	16.5	12.5	14.4	19.9	17.4	10.0
NW	.3	6.7	9.3	3.6	.9	.1		20.9	15.5		20.9	21.2	20.0	.0	21.9	19.3	22.4	30.0
VAR	.0	.0	.0	.0	.0	.0		.0	.0		.0	.0	.0	.0	.0	.0	.0	.0
CALM	1.9							1.9	.0		.7	2.1	2.7	.0	2.8	.0	2.6	.0
TOT OBS	65	400	389	136	30	4	1024		13.6		134	144	150	8	218	161	204	5
TOT PCT	6.3	39.1	38.0	13.3	2.9	.4		100.0			100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0

TABLE 3A

WIND DIR	WIND SPEED (KNOTS)					TOTAL OBS	PCT FREQ	MEAN SPD	HOUR (GMT)				
	0-6	7-16	17-27	28-40	41+				00	06	12	18	21
N	2.5	9.5	4.7	1.4	*		18.1	13.9	18.4	20.7	16.6	18.3	
NE	2.7	5.5	1.8	*	.1		10.2	11.0	11.6	8.5	9.2	11.2	
E	1.6	3.0	1.0	*	.0		5.6	10.5	8.1	5.2	5.0	3.6	
SE	2.0	2.6	.7	*	.0		5.2	9.3	4.5	5.7	6.0	4.5	
S	2.1	4.3	2.0	.5	.0		8.9	12.3	8.6	8.2	9.8	8.0	
SW	2.3	6.3	3.5	1.2	.2		13.5	14.9	13.2	13.8	14.3	12.1	
W	3.2	6.3	3.4	2.3	.5		15.8	16.0	13.0	16.3	16.8	17.2	
NW	2.6	10.0	6.1	2.0	.2		20.9	15.5	21.0	19.0	20.8	22.6	
VAR	.0	.0	.0	.0	.0		.0	.0	.0	.0	.0	.0	
CALM	1.9						1.9	.0	1.4	2.5	1.6	2.4	
TOT OBS	213	486	236	78	11	1024		13.6	278	158	379	209	
TOT PCT	20.8	47.5	23.0	7.6	1.1		100.0		100.0	100.0	100.0	100.0	

JULY

PERIOD: (PRIMARY) 1911-1969  
(OVER-ALL) 1878-1969AREA 0013 SPENCER GULF  
35.25 136.9E

TABLE 4

PERCENTAGE FREQUENCY OF WIND SPEED BY HOUR (GMT)

HOUR	CALM	1-3	4-10	WIND SPEED (KNOTS)			48+	MEAN	PCT FREQ	TOTAL OBS
				11-21	22-33	34-47				
00003	1.4	4.7	35.3	38.1	15.5	4.3	.7	14.7	100.0	278
06009	2.5	6.3	36.7	36.1	13.9	4.4	.0	13.5	100.0	158
12015	1.0	4.7	42.5	37.5	12.1	1.3	.3	12.7	100.0	379
18021	2.4	2.4	39.7	40.2	12.0	2.9	.5	13.6	100.0	209
TOT	1.9	4.6	40.0	38.9	13.6	3.0	.4	13.6		1024
PCT	1.9	4.5	39.1	38.0	13.3	2.9	.4		100.0	

TABLE 5

PCT FREQ OF TOTAL CLOUD AMOUNT (EIGHTHS)  
BY WIND DIRECTION

WIND DIR	0-2	3-4	5-7	8 & OBSCD	TOTAL OBS	MEAN CLOUD COVER
N	4.3	2.4	6.5	5.6		5.1
NE	5.5	1.0	1.7	3.1		3.8
E	.0	1.0	.7	.4		5.5
SE	1.5	.5	.2	.5		3.3
S	.8	2.6	2.7	1.2		4.7
SW	4.0	3.2	5.4	.5		4.0
W	3.6	5.1	6.5	2.7		4.6
NW	6.4	3.8	9.5	4.6		4.7
VAR	.0	.0	.0	.0		.0
CALM	1.4	.0	.4	.8		3.4
TOT OBS	58	41	71	40	210	4.5
TOT PCT	27.6	19.5	33.8	19.0	100.0	

TABLE 6

PERCENTAGE FREQUENCY OF CEILING HEIGHTS (FT, NH >4/8)  
AND OCCURRENCE OF NH <5/8 BY WIND DIRECTION

WIND DIR	000	150	300	600	1000	2000	3500	5000	6500	8000+	NH <5/8 ANY HGT	TOTAL OBS
N	.0	.0	.4	.8	2.6	.8	.5	.0	.5	.8	12.4	
NE	.0	.0	.0	1.5	.6	1.0	.5	.0	.0	.0	7.6	
E	.0	.0	.0	.4	.0	.2	.0	.0	.0	.0	1.4	
SE	.0	.0	.0	.0	.0	.2	.0	.0	.0	.0	2.5	
S	.0	.0	.0	1.4	1.2	.5	.0	.0	.0	.0	4.3	
SW	.0	.0	.0	.5	3.0	.5	.2	.0	.0	.0	8.9	
W	.0	.0	.4	.8	2.7	1.9	.2	.0	.0	.0	11.7	
NW	.2	.0	.2	2.1	4.2	1.1	1.0	.0	.0	.6	15.0	
VAR	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
CALM	.0	.0	.0	.0	1.0	.0	.0	.0	.0	.0	1.4	
TOT OBS	1	0	2	16	32	13	5	0	1	3	137	210
TOT PCT	.5	.0	1.0	7.6	15.2	6.2	2.4	.0	.5	1.4	65.2	100.0

TABLE 7

CUMULATIVE PCT FREQ OF SIMULTANEOUS OCCURRENCE  
OF CEILING HEIGHT (NH >4/8) AND VSBY (NM)

CEILING (FEET)	VSBY (NM)							
	>10	>5	>2	>1	>1/2	>1/4	>50YD	>0
>A500	1.9	1.9	1.9	1.9	1.9	1.9	1.9	1.9
>A000	1.9	1.9	1.9	1.9	1.9	1.9	1.9	1.9
>A500	4.6	4.6	4.6	4.6	4.6	4.6	4.6	4.6
>A000	9.7	10.2	10.6	10.6	10.6	10.6	10.6	10.6
>A1000	20.8	25.5	26.4	26.4	26.4	26.4	26.4	26.4
>A000	25.5	32.4	33.8	33.8	33.8	33.8	33.8	33.8
>A300	25.5	32.9	34.7	34.7	34.7	34.7	34.7	34.7
>A150	25.5	32.9	34.7	34.7	34.7	34.7	34.7	34.7
>A0	25.5	33.3	35.2	35.2	35.2	35.2	35.2	35.2
TOTAL	55	72	76	76	76	76	76	76

TOTAL NUMBER OF OBS: 210

PCT FREQ NH &lt;5/8: 64.8

TABLE 7A

PERCENTAGE FREQ OF LOW CLOUDS (EIGHTHS)

0	1	2	3	4	5	6	7	8 OBSCD	TOTAL OBS
12.8	13.6	14.4	10.0	13.7	8.0	7.2	6.4	14.0	250

JULY

PERIOD: (PRIMARY) 1911-1969  
(OVER-ALL) 1878-1969AREA 0013 SPENCER GULF  
35.25 136.9E

TABLE 8

PERCENT FREQ OF WIND DIRECTION VS OCCURRENCE OR NON-OCCURRENCE OF  
PRECIPITATION WITH VARYING VALUES OF VISIBILITY

VSBY (NM)		N	NE	E	SE	S	SW	W	NW	VAR	CALM	PCT	TOTAL OBS
<1/2	PCP	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
	NO PCP	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
	TOT %	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
1/2<1	PCP	.0	.0	.0	.0	.2	.0	.0	.0	.0	.0	.2	
	NO PCP	.0	.2	.2	.0	.0	.0	.0	.0	.0	.0	.4	
	TOT %	.0	.2	.2	.0	.2	.0	.0	.0	.0	.0	.5	
1<2	PCP	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
	NO PCP	.0	.2	.0	.0	.0	.0	.0	.0	.0	.0	.2	
	TOT %	.0	.2	.0	.0	.0	.0	.0	.0	.0	.0	.2	
2<5	PCP	.0	.0	.0	.0	.2	.0	.4	.0	.0	.0	.5	
	NO PCP	.3	.0	.0	.0	.0	.2	.0	.6	.0	.0	1.1	
	TOT %	.3	.0	.0	.0	.2	.2	.4	.6	.0	.0	1.6	
5<10	PCP	1.4	.9	.4	.7	.9	2.3	2.1	1.5	.0	.0	10.1	
	NO PCP	7.1	5.8	4.3	3.3	3.3	5.1	4.2	5.5	.0	.2	38.7	
	TOT %	8.5	6.7	4.6	4.0	4.2	7.3	6.3	7.0	.0	.2	48.8	
10+	PCP	.1	.1	.1	.4	.1	1.2	1.2	.3	.0	.0	3.4	
	NO PCP	11.4	5.6	1.1	1.6	3.2	5.4	5.7	10.8	.0	.9	45.6	
	TOT %	11.5	5.7	1.2	1.9	3.3	6.5	6.8	11.1	.0	.9	48.9	
TOT OBS													544
TOT PCT		20.3	12.8	6.0	5.9	7.8	14.0	13.5	18.7	.0	1.1	100.0	

TABLE 9

PERCENT FREQ OF WIND DIRECTION VS WIND SPEED  
WITH VARYING VALUES OF VISIBILITY

VSBY (NM)	SPD KTS	N	NE	E	SE	S	SW	W	NW	VAR	CALM	PCT	TOTAL OBS
<1/2	0-3	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
	4-10	.0	.0	.0	.0	.1	.1	.0	.0	.0	.0	.2	
	11-21	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
	22+	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
	TOT %	.0	.0	.0	.0	.1	.1	.0	.0	.0	.0	.2	
1/2<1	0-3	.0	.2	.0	.0	.0	.0	.0	.0	.0	.0	.2	
	4-10	.0	.0	.2	.0	.0	.0	.0	.0	.0	.0	.2	
	11-21	.0	.0	.0	.0	.2	.0	.0	.0	.0	.0	.2	
	22+	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
	TOT %	.0	.2	.2	.0	.2	.0	.0	.0	.0	.0	.5	
1<2	0-3	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
	4-10	.0	.2	.0	.0	.0	.0	.0	.0	.0	.0	.2	
	11-21	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
	22+	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
	TOT %	.0	.2	.0	.0	.0	.0	.0	.0	.0	.0	.2	
2<5	0-3	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
	4-10	.0	.2	.0	.0	.0	.2	.0	.0	.0	.0	.3	
	11-21	.1	.0	.0	.0	.2	.0	.2	.3	.0	.0	.8	
	22+	.1	.0	.0	.0	.0	.2	.5	.2	.0	.0	.9	
	TOT %	.2	.2	.0	.0	.2	.3	.6	.5	.0	.0	2.0	
5<10	0-3	.0	.2	.2	.0	.2	.2	.3	.0	.0	.2	1.2	
	4-10	3.5	3.1	1.7	1.8	.9	2.6	1.5	2.3	.0	.0	17.5	
	11-21	2.7	2.2	2.1	1.5	1.5	2.5	2.5	2.3	.0	.0	17.2	
	22+	1.2	.3	.0	.1	1.1	1.6	1.5	1.4	.0	.0	7.2	
	TOT %	7.4	5.8	4.0	3.5	3.6	6.9	5.8	6.1	.0	.2	43.2	
10+	0-3	.2	.4	.2	.4	.3	.0	.5	.4	.0	1.5	4.0	
	4-10	3.9	2.8	.3	.5	1.3	3.2	3.0	3.4	.0	.0	20.6	
	11-21	6.1	1.9	.3	.5	1.9	3.3	2.6	5.1	.0	.0	21.7	
	22+	1.0	.2	.3	.0	.3	1.5	1.9	2.5	.0	.0	7.7	
	TOT %	11.2	5.3	1.2	2.2	5.0	8.1	8.1	11.4	.0	1.5	54.0	
TOT OBS													650
TOT PCT		18.8	11.5	5.3	5.7	9.0	15.4	14.5	18.0	.0	1.7	100.0	



JULY

PERIOD: (PRIMARY) 1911-1949  
(OVER-ALL) 1878-1949AREA 0013 SPENCER GULF  
35.25 136.9E

TABLE 10

PERCENT FREQUENCY OF CEILING HEIGHTS (FEET, NH >4/8) AND  
OCCURRENCE OF NH <5/8 BY HOUR

HOUR (GMT)	000 149	150 299	300 599	600 999	1000 1999	2000 3499	3500 4999	5000 6499	6500 7999	8000+	TOTAL	NH <5/8 ANY HGT	TOTAL OBS
00003	.0	.0	2.3	9.3	18.6	4.7	.0	.0	.0	4.7	39.5	60.5	43
06009	.0	.0	1.9	5.7	13.2	5.7	3.8	.0	.0	1.9	32.1	67.9	53
12015	1.2	.0	.0	7.1	11.9	4.8	2.4	.0	1.2	.0	28.6	71.4	84
18021	.0	.0	.0	5.4	16.1	7.1	3.6	.0	.0	.0	32.1	67.9	56
TOT	1	0	2	16	34	13	6	0	1	3	76	160	236
PCT	.4	.0	.8	6.8	14.4	5.5	2.5	.0	.4	1.3	32.2	67.8	100.0

TABLE 11

PERCENT FREQUENCY VSBY (NM) BY HOUR

HOUR (GMT)	<1/2	1/2<1	1<2	2<5	5<10	10+	TOTAL OBS
00003	.0	.7	.7	1.5	44.5	52.6	137
06009	.0	.9	.0	2.6	39.1	57.4	115
12015	.4	.7	.0	1.9	45.7	51.3	269
18021	.0	.0	.0	2.0	40.5	57.4	148
TOT	1	4	1	13	289	361	669
PCT	.1	.6	.1	1.9	43.2	54.0	100.0

TABLE 12

CUMULATIVE PCT FREQ OF RANGES OF VSBY (NM) AND/OR  
CEILING HGT (FEET, NH >4/8) BY HOUR

HOUR (GMT)	<150 <500	<600 <1	<1000 <5	1000+ AND 5+	NH <5/8 AND 5+	TOTAL OBS
00003	.0	2.6	13.2	31.6	55.3	38
06009	.0	2.0	12.0	22.0	66.0	50
12015	1.3	1.3	9.0	21.8	69.2	78
18021	.0	.0	8.0	30.0	62.0	50
TOT	1	3	22	55	139	216
PCT	.5	1.4	10.2	25.5	64.4	100.0

TABLE 13

PERCENT FREQUENCY OF RELATIVE HUMIDITY BY TEMP

TEMP F	0-29	30-39	40-49	50-59	60-69	70-79	80-89	90-100	TOTAL OBS	PCT FREQ
65/69	.0	.3	.0	.0	.0	.0	.0	.0	1	.3
60/64	.0	.0	.0	.6	1.8	5.8	4.0	1.2	44	13.5
55/59	.0	.0	.3	2.5	8.9	20.3	21.5	3.1	184	56.6
50/54	.0	.0	.0	1.8	6.8	5.8	11.1	2.8	92	28.3
45/49	.0	.0	.0	.0	.0	.6	.3	.3	4	1.2
TOTAL	0	1	1	16	57	106	120	24	325	100.0
PCT	.0	.3	.3	4.9	17.5	32.6	36.9	7.4		

TABLE 14

PERCENT FREQUENCY OF WIND DIRECTION BY TEMP

	N	NE	E	SE	S	SW	W	NW	VAR	CALM
65/69	.0	.0	.0	.0	.0	.3	.0	.0	.0	.0
60/64	4.4	.9	.0	.3	.6	.7	1.8	4.5	.0	.3
55/59	12.8	8.1	.9	1.1	3.2	7.2	10.5	11.9	.0	.9
50/54	3.9	3.5	1.9	2.6	3.5	5.6	3.4	3.8	.0	.0
45/49	.0	.3	.0	.3	.0	.6	.0	.0	.0	.0
TOTAL	21.2	12.8	2.8	4.3	7.4	14.4	15.6	20.3	.0	1.2

TABLE 15

MEANS, EXTREMES AND PERCENTILES OF TEMP (DEG F) BY HOUR

HOUR (GMT)	MAX	99%	95%	50%	5%	1%	MIN	MEAN	TOTAL OBS
00003	66	62	61	56	51	50	48	55.9	272
06009	64	63	62	56	52	49	48	56.5	157
12015	65	61	59	55	51	49	45	55.2	378
18021	62	61	59	55	50	47	46	54.8	210
TOT	66	62	60	55	51	48	45	55.5	1017

TABLE 16

PERCENT FREQUENCY OF RELATIVE HUMIDITY BY HOUR

HOUR (GMT)	0-29	30-39	40-49	50-59	60-69	70-79	80-89	90-100	MEAN	TOTAL OBS
00003	.0	6.2	20.0	35.4	30.8	7.7	77	65		
06009	.0	7.7	20.0	32.3	36.9	3.1	75	65		
12015	.0	5.6	18.3	35.7	32.5	7.9	77	126		
18021	.0	2.6	12.8	24.4	50.0	10.3	80	78		
TOT	0	18	59	108	124	25	77	334		

JULY

PERIOD: (PRIMARY) 1911-1969  
(OVER-ALL) 1878-1969AREA 0013 SPENCER GULF  
35.25 136.9E

TABLE 17

PCT FREQ OF AIR TEMPERATURE (DEG F) AND THE OCCURRENCE OF FOG (WITHOUT PRECIPITATION)  
VS AIR-SEA TEMPERATURE DIFFERENCE (DEG F)

AIR-SEA TMP DIF	45 48	49 52	53 56	57 60	61 64	65 68	TOT	W FOG	WN FOG
7/8	.0	.0	.0	.0	.4	.0	2	.0	.4
6	.0	.0	.0	.2	.2	.2	3	.0	.6
5	.0	.2	.0	.4	.0	.0	3	.0	.6
4	.0	.0	.2	1.2	.6	.0	10	.0	2.0
3	.0	.0	.0	1.4	1.2	.0	13	.0	2.6
2	.0	.2	.0	3.5	.8	.0	23	.4	4.1
1	.0	.2	2.8	5.9	1.0	.0	50	.0	9.8
0	.0	.4	4.7	5.7	.6	.0	58	.0	11.4
-1	.0	.6	6.7	7.5	.4	.0	77	.2	14.6
-2	.2	1.6	9.8	4.7	.0	.0	83	.0	16.3
-3	.0	1.8	7.5	1.2	.2	.0	54	.0	10.6
-4	.0	1.4	4.5	.4	.0	.0	32	.0	6.3
-5	.0	2.6	3.9	.2	.0	.0	34	.0	6.7
-6	.0	2.9	2.9	.2	.0	.0	31	.0	6.1
-7/-6	.4	2.6	1.4	.0	.0	.0	22	.2	4.1
-9/-10	.2	.8	.4	.0	.0	.0	7	.0	1.4
-11/-13	.0	.0	.8	.2	.0	.0	5	.0	1.0
-14/-16	.0	.2	.2	.0	.0	.0	2	.0	.4
TOTAL	4	78	106	27	1	509	100.0	.8	50.2
PCT	.8	15.3	45.8	32.6	5.3	.2			

PERIOD: (OVER-ALL) 1963-1969

TABLE 18

PCT FREQ OF WIND SPEED (KTS) AND DIRECTION VERSUS SEA HEIGHTS (FT)

HGT	N						PCT	NE						PCT
	1-3	4-10	11-21	22-33	34-47	48+		1-3	4-10	11-21	22-33	34-47	48+	
<1	.0	.7	.0	.0	.0	.0	.7	.7	.0	.0	.0	.0	.0	1.4
1-2	.0	4.3	.7	.0	.0	.0	4.9	.0	2.2	.0	.0	.0	.0	2.2
3-4	.0	1.9	3.7	.0	.0	.0	5.6	.0	1.4	1.5	.0	.0	.0	2.9
5-6	.0	.7	6.0	.7	.0	.0	7.3	.0	.7	2.4	.0	.0	.0	3.1
7	.0	.0	1.9	.0	.0	.0	1.9	.0	.0	.7	.0	.0	.0	.7
8-9	.0	.0	.0	.0	.0	.0	.0	.0	.0	.7	.7	.0	.0	1.4
10-11	.0	.0	.0	.7	.0	.0	.7	.0	.0	.0	.2	.0	.0	.2
12	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
13-16	.0	.0	.0	.5	.0	.0	.5	.0	.0	.0	.2	.0	.7	.9
17-19	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
20-22	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
23-25	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
26-32	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
33-40	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
41-48	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
49-60	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
61-70	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
71-86	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
87+	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
TOT PCT	.0	7.5	12.2	1.9	.0	.0	21.6	.7	4.9	5.3	1.0	.0	.7	12.6

HGT	E						PCT	SE						PCT
	1-3	4-10	11-21	22-33	34-47	48+		1-3	4-10	11-21	22-33	34-47	48+	
<1	.7	.0	.0	.0	.0	.0	.7	.0	.0	.0	.0	.0	.0	.0
1-2	.0	.0	.0	.0	.0	.0	.0	.0	.7	.0	.0	.0	.0	.7
3-4	.0	.0	.0	.0	.0	.0	.0	.0	.7	.0	.0	.0	.0	.7
5-6	.0	.0	.0	.0	.0	.0	.0	.0	.7	.0	.0	.0	.0	.7
7	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
8-9	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
10-11	.0	.0	.0	.5	.0	.0	.5	.0	.0	.0	.0	.0	.0	.0
12	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
13-16	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
17-19	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
20-22	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
23-25	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
26-32	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
33-40	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
41-48	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
49-60	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
61-70	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
71-86	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
87+	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
TOT PCT	.7	.0	.0	.5	.0	.0	1.2	.0	2.0	.0	.0	.0	.0	2.0

PERIOD: (OVER-ALL) 1963-1969

JULY

AREA 0013 SPENCER GULF  
35.25 136.9E

TABLE 18 (CONT)

PCT FREQ OF WIND SPEED (KTS) AND DIRECTION VERSUS SEA HEIGHTS (FT)

HGT	S							SW							PCT
	1-3	4-10	11-21	22-33	34-47	48+	PCT	1-3	4-10	11-21	22-33	34-47	48+	PCT	
<1	.0	1.2	.0	.0	.0	.0	1.2	.0	.9	.0	.0	.0	.0	.9	
1-2	.0	1.4	.7	.0	.0	.0	2.0	.0	3.2	.7	.0	.0	.0	3.9	
3-4	.0	1.0	.0	.0	.0	.0	1.0	.0	1.4	.7	.0	.0	.0	2.0	
5-6	.0	.7	1.9	.0	.0	.0	2.6	.0	.7	2.2	1.4	.0	.0	4.3	
7	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.7	
8-9	.0	.0	.0	1.4	.0	.0	1.4	.0	.0	.0	.0	.0	.0	.2	
10-11	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
12	.0	.0	.0	.7	.0	.0	.7	.0	.0	.0	.0	.0	.0	.0	
13-16	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
17-19	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
20-22	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
23-25	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
26-32	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
33-40	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
41-48	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
49-60	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
61-70	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
71-86	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
87+	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
TOT PCT	.0	4.3	2.6	2.0	.0	.0	8.8	.0	6.1	4.3	1.4	.2	.0	11.9	

HGT	W							NW							PCT	TOTAL PCT
	1-3	4-10	11-21	22-33	34-47	48+	PCT	1-3	4-10	11-21	22-33	34-47	48+	PCT		
<1	.5	1.7	.0	.0	.0	.0	2.2	.2	.3	.0	.0	.0	.0	.5		
1-2	.0	1.5	.0	.0	.0	.0	1.5	.0	3.1	1.4	.0	.0	.0	4.4		
3-4	.0	2.2	2.0	.0	.0	.0	4.3	.0	1.0	2.9	.7	.0	.0	4.6		
5-6	.0	.7	1.2	.0	.0	.0	1.9	.0	.0	2.7	4.1	.0	.0	6.8		
7	.0	.0	.7	1.7	.0	.0	3.1	.0	.0	1.5	2.4	.0	.0	3.9		
8-9	.0	.0	.0	.7	.5	.0	1.2	.0	.0	.0	.0	.0	.0	.0		
10-11	.0	.0	.0	.7	1.4	.0	2.0	.0	.0	.0	1.4	.0	.0	1.4		
12	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0		
13-16	.0	.0	.0	.7	.5	.0	1.2	.0	.0	.0	.0	.2	.0	.2		
17-19	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0		
20-22	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0		
23-25	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0		
26-32	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0		
33-40	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0		
41-48	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0		
49-60	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0		
61-70	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0		
71-86	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0		
87+	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0		
TOT PCT	.5	6.1	3.9	3.7	3.1	.0	17.3	.2	4.4	8.5	8.5	.2	.0	21.8	97.3	

WIND SPEED (KTS) VS SEA HEIGHT (FT)

HGT	0-3	4-10	11-21	22-33	34-47	48+	PCT	TOT OBS
<1	4.7	5.3	.0	.0	.0	.0	10.0	
1-2	.0	17.3	3.3	.0	.0	.0	20.7	
3-4	.0	9.3	10.7	.7	.0	.0	20.7	
5-6	.0	4.7	16.0	6.0	.7	.0	26.7	
7	.0	.0	5.3	4.0	.7	.0	10.0	
8-9	.0	.0	.7	2.7	.7	.0	4.0	
10-11	.0	.0	.0	3.3	1.3	.0	4.7	
12	.0	.0	.0	.7	.0	.0	.7	
13-16	.0	.0	.0	1.3	.7	.7	2.7	
17-19	.0	.0	.0	.0	.0	.0	.0	
20-22	.0	.0	.0	.0	.0	.0	.0	
23-25	.0	.0	.0	.0	.0	.0	.0	
26-32	.0	.0	.0	.0	.0	.0	.0	
33-40	.0	.0	.0	.0	.0	.0	.0	
41-48	.0	.0	.0	.0	.0	.0	.0	
49-60	.0	.0	.0	.0	.0	.0	.0	
61-70	.0	.0	.0	.0	.0	.0	.0	
71-86	.0	.0	.0	.0	.0	.0	.0	
87+	.0	.0	.0	.0	.0	.0	.0	
TOT PCT	4.7	35.7	36.0	18.7	3.3	.7	100.0	150

PERIOD: (OVER-ALL) 1949-1969

TABLE 19

PERCENT FREQUENCY OF WAVE HEIGHT (FT) VS WAVE PERIOD (SECONDS)

PERIOD (SEC)	<1	1-2	3-4	5-6	7	8-9	10-11	12	13-16	17-19	20-22	23-25	26-32	33-40	41-48	49-60	61-70	71-86	87+	TOTAL	MEAN HGT
<6	3.4	6.8	8.7	3.9	1.9	.5	1.0	.0	1.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	56	4
6-7	.0	1.0	5.8	11.1	7.7	4.3	1.9	.5	1.4	.0	.5	.0	.0	.0	.0	.0	.0	.0	.0	71	6
8-9	.0	.5	1.4	3.4	3.4	5.8	1.4	.5	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	34	7
10-11	.0	.5	1.4	1.0	2.4	2.4	2.9	.5	1.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	25	8
12-13	.0	.0	.0	.0	.5	1.0	1.4	.0	.5	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	7	9
13	.0	.0	.0	.0	.0	.5	.0	.0	.5	1.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	4	14
INDFT	1.0	.5	1.0	.5	1.0	1.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	15	4
TOTAL	9	19	38	41	35	32	18	3	9	2	1	0	0	0	0	0	0	0	0	207	6
PCT	4.3	9.2	18.4	19.8	16.9	15.5	8.7	1.4	4.3	1.0	.5	.0	.0	.0	.0	.0	.0	.0	.0	100.0	

## AUGUST

PERIOD: (PRIMARY) 1910-1969  
(OVER-ALL) 1865-1969

AREA 0013 SPENCER GULF  
35.25 136.9E

TABLE 1

## PERCENT FREQUENCY OF WEATHER OCCURRENCE BY WIND DIRECTION

PRECIPITATION TYPE										OTHER WEATHER PHENOMENA					
WIND DIR	RAIN	RAIN SHWR	DRZL	FRIG PCPN	SNOW	OTHER FRZN PCPN	HAIL	PCPN AT DB TIME	PCPN PAST HOUR	THDR LTNG	FOG WD PCPN	FOG WD PCPN PAST HR	SMOKE HAZE	SPRAY BLWG DUST	NO SIG WFA
N	4.2	6.0	.0	.0	.0	.0	.0	10.2	2.1	2.6	.5	.0	.0	.0	85.2
NE	5.7	6.4	2.7	.0	.0	.0	.0	15.8	.0	3.4	1.3	.0	.3	.0	80.5
E	2.4	8.2	2.4	.0	.0	.0	.0	12.9	2.4	3.5	2.4	.0	1.8	.0	77.1
SE	14.7	7.3	1.8	.0	.0	.0	.0	23.9	3.7	.0	.0	.0	.0	.0	72.5
S	7.4	15.7	.9	.0	.0	.0	.0	24.0	1.4	.0	1.8	.0	.0	.0	76.0
SW	2.2	16.0	.9	.0	.0	.0	.0	19.0	3.9	1.1	.0	.0	.4	.0	79.6
W	2.9	10.3	.4	.0	.0	.0	.0	13.7	4.3	2.5	.0	.0	.0	.0	85.3
NW	4.3	5.4	1.2	.0	.0	.0	.0	11.0	.8	2.1	1.2	.0	.0	.0	.0
VAR	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
CALM	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	9.1	.0	.0	.0	90.9
TOT PCT	4.4	9.3	1.1	.0	.0	.0	.0	14.9	2.3	2.0	.9	.0	.3	.0	80.1
TOT OBS:	653														

TABLE 2

## PERCENT FREQUENCY OF WEATHER OCCURRENCE BY HOUR

HOUR (GMT)	PRECIPITATION TYPE							OTHER WEATHER PHENOMENA							
	RAIN	RAIN SHWR	DRZL	FRZG PCPN	SNOW	OTHER FRZN PCPN	HAIL	PCPN AT DB TIME	PCPN PAST HOUR	THOR LTNG	FOG WD PCPN	FOG WD PCPN PAST HR	SMOKE HAZE	SPRAY BLWG DUST	NO SIG WEA
00003	2.5	8.3	.6	.0	.0	.0	.0	11.5	1.3	.0	1.3	.0	.0	.0	86.0
06009	2.5	6.7	.8	.0	.0	.0	.0	10.0	5.8	.0	.8	.0	.8	.0	82.5
12015	5.6	10.8	.8	.0	.0	.0	.0	17.3	1.6	2.8	1.2	.0	.4	.0	77.5
18021	6.0	8.7	2.0	.0	.0	.0	.0	16.7	1.3	4.0	.0	.0	.0	.0	78.7
TOT PCT	4.4	9.0	1.0	.0	.0	.0	.0	14.5	2.2	1.9	.9	.0	.3	.0	80.6
TOT OBS:	676														

TABLE 3

## PERCENTAGE FREQUENCY OF WIND DIRECTION BY SPEED AND BY HOUR

WIND DIR	WIND SPEED (KNOTS)							TOTAL DBS	PCT FREQ	MEAN SPD	HOUR (GMT)							
	0-3	4-10	11-21	22-33	34-47	48+					00	03	06	09	12	15	18	21
N	.7	6.2	6.6	1.6	.3	.0		15.4	12.9	24.3	19.0	15.1	7.9	9.7	12.2	15.7	14.3	
NE	.6	5.1	3.8	.9	.1	.0		10.4	11.6	9.4	11.6	14.8	7.9	9.8	8.3	9.2	17.9	
E	1.0	3.0	1.6	.2	.0	.0		5.8	8.7	2.2	5.4	6.5	.0	8.0	7.8	4.4	7.1	
SE	.3	2.0	2.0	.4	.0	.0		4.7	11.8	2.2	5.1	4.9	.0	7.0	6.0	3.0	.0	
S	1.0	3.7	2.8	.7	.0	.0		8.1	10.7	7.9	8.5	5.2	26.3	9.4	6.7	9.0	.0	
SW	1.4	7.3	6.4	3.5	.8	.0		19.3	14.1	18.7	16.2	18.0	5.3	21.2	21.5	21.0	14.3	
W	.5	5.9	5.4	3.5	.8	.2		16.2	15.8	15.3	12.2	17.7	18.4	18.0	16.8	16.4	10.7	
NW	1.0	5.5	7.8	2.5	.4	.0		17.1	13.9	18.8	18.5	15.8	28.9	14.5	16.6	17.7	35.7	
VAR	.0	.0	.0	.0	.0	.0		.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
CALM	2.9							2.9	.0	1.1	3.4	1.7	5.3	2.4	4.1	4.3	.0	
TOT DBS	114	469	441	161	29	2	1216		12.8	178	176	172	19	254	193	210	14	
TOT PCT	9.4	38.6	36.3	13.2	2.4	.2		100.0		100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	

TABLE 3A

WIND DIR	WIND SPEED (KNOTS)					TOTAL DBS	PCT FREQ	MEAN SPD	HOUR (GMT)			
	0-6	7-16	17-27	28-40	41+				00	06	12	18
N	3.5	7.3	3.7	.7	.1		15.4	12.9	21.7	14.4	10.8	15.6
NE	3.1	4.9	1.9	.5	.1		10.4	11.6	10.5	14.1	9.2	9.7
E	3.0	2.0	.7	.2	.0		5.8	8.7	3.8	5.9	7.9	4.6
SE	1.0	2.9	.6	.2	.0		4.7	11.8	3.7	4.5	6.5	2.8
S	2.5	4.2	1.4	.1	.0		8.1	10.7	8.2	7.3	8.3	8.5
SW	4.4	8.8	4.0	2.0	.2		19.3	14.1	17.4	16.8	21.3	20.5
W	2.9	6.8	4.0	2.2	.3		16.2	15.8	13.8	17.8	17.5	16.1
NW	2.8	8.6	4.8	1.0	.0		17.1	13.9	18.6	17.1	15.4	18.2
VAR	.0	.0	.0	.0	.0		.0	.0	.0	.0	.0	.0
CALM	2.9						2.9	.0	2.3	2.1	3.1	4.0
TOT DBS	316	552	257	83	8	1216		12.8	354	191	447	224
TOT PCT	26.0	45.4	21.1	6.8	.7		100.0		100.0	100.0	100.0	100.0

PERIOD: (PRIMARY) 1910-1969  
(OVER-ALL) 1865-1969

AUGUST

AREA 0013 SPENCER GULF  
35.25 136.9E

TABLE 4

PERCENTAGE FREQUENCY OF WIND SPEED BY HOUR (GMT)

HOUR	CALM	1-3	4-10	WIND SPEED (KNOTS)			48+	MEAN	PCT FREQ	TOTAL OBS
				11-21	22-33	34-47				
00003	2.3	4.2	40.4	35.3	14.7	2.5	.6	13.5	100.0	354
06009	2.1	7.3	38.7	36.1	13.6	2.1	.0	12.8	100.0	191
12015	3.1	8.3	38.9	35.1	12.3	2.2	.0	12.2	100.0	447
18021	4.0	5.8	34.8	40.2	12.5	2.7	.0	12.9	100.0	224
TOT	35	79	469	441	161	29	2	12.8		1216
PCT	2.9	6.5	38.6	36.3	13.2	2.4	.2	100.0		

TABLE 5

PCT FREQ OF TOTAL CLOUD AMOUNT (EIGHTHS)  
BY WIND DIRECTION

WIND DIR	0-2	3-4	5-7	8 & OBSCD	TOTAL OBS	MEAN CLOUD COVER
N	4.4	2.5	3.9	2.8	4.2	
NE	5.3	.9	2.0	2.0	3.3	
E	1.6	.9	1.9	2.9	5.3	
SE	.5	1.3	2.3	1.0	5.5	
S	1.4	1.7	3.2	.8	4.6	
SW	4.7	6.9	6.8	1.3	4.1	
W	5.9	8.0	7.8	1.3	4.1	
NW	3.6	2.4	4.3	3.0	4.7	
VAR	.0	.0	.0	.0	.0	
CALM	.0	.4	.4	.0	4.5	
TOT OBS	64	58	76	35	233	4.3
TOT PCT	27.5	24.9	32.6	15.0	100.0	

TABLE 6

PERCENTAGE FREQUENCY OF CEILING HEIGHTS (FT.) NH >4/8  
AND OCCURRENCE OF NH <5/8 BY WIND DIRECTION

	000	150	300	600	1000	2000	3500	5000	6500	8000+	NH <5/8	TOTAL
	149	299	599	999	1999	3499	4999	6499	7999		ANY HGT	OBS
N	.0	.0	.9	.6	.9	1.1	.0	.0	.4	.8	8.9	
NE	.0	.0	.0	.1	1.0	1.1	.9	.0	.0	.0	7.2	
E	.0	.0	.0	.9	.8	1.6	.0	.4	.0	.0	3.6	
SE	.0	.0	.0	1.3	.9	.6	.4	.0	.0	.0	1.8	
S	.0	.0	.0	.4	1.7	1.2	.0	.0	.0	.0	3.8	
SW	.0	.0	.0	2.6	2.9	.4	.0	.0	.0	.0	13.7	
W	.0	.0	.8	1.3	3.0	.2	.6	.4	.0	.0	16.7	
NW	.0	.0	.1	.5	3.1	1.9	.6	.0	.0	.5	6.4	
VAR	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
CALM	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.9	
TOT OBS	0	0	4	18	33	19	6	2	1	3	147	233
TOT PCT	.0	.0	1.7	7.7	14.2	8.2	2.6	.9	.4	1.3	63.1	100.0

TABLE 7

CUMULATIVE PCT FREQ OF SIMULTANEOUS OCCURRENCE  
OF CEILING HEIGHT (NH >4/8) AND VSBY (NM)

CEILING (FEET)	VSBY (NM)							
	>10	>5	>2	>1	>1/2	>1/4	>50YD	>0
* OR >A500	1.3	1.7	1.7	1.7	1.7	1.7	1.7	1.7
* OR >A000	2.1	2.5	2.5	2.5	2.5	2.5	2.5	2.5
* OR >A500	4.2	5.1	5.1	5.1	5.1	5.1	5.1	5.1
* OR >A000	12.2	13.1	13.1	13.1	13.1	13.1	13.1	13.1
* OR >A000	23.2	27.0	27.0	27.0	27.0	27.0	27.0	27.0
* OR >A00	27.4	33.8	34.6	34.6	34.6	34.6	34.6	34.6
* OR >A00	27.8	35.0	36.3	36.3	36.3	36.3	36.3	36.3
* OR >A00	27.8	35.0	36.3	36.3	36.3	36.3	36.3	36.3
* OR >0	27.8	35.0	36.3	36.3	36.3	36.3	36.3	36.3
TOTAL	66	83	86	86	86	86	86	86

TOTAL NUMBER OF OBS: 237

PCT FREQ NH <5/8: 63.7

TABLE 7A

PERCENTAGE FREQ OF LOW CLOUDS (EIGHTHS)

0	1	2	3	4	5	6	7	8	OBSCD	TOTAL OBS
13.2	12.0	12.8	13.9	9.8	8.6	9.8	9.8	10.2	.0	266



PERIOD: (PRIMARY) 1910-1969  
(OVER-ALL) 1865-1969

AUGUST

AREA 0013 SPENCER GULF  
35.25 136.9E

TABLE 8

PERCENT FREQ OF WIND DIRECTION VS OCCURRENCE OR NON-OCCURRENCE OF  
PRECIPITATION WITH VARYING VALUES OF VISIBILITY

VSBY (NM)		N	NE	E	SE	S	SW	W	NW	VAR	CALM	PCT	TOTAL OBS
<1/2	PCP	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
	NO PCP	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
	TOT %	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
1/2<1	PCP	.1	.0	.0	.0	.0	.0	.0	.1	.0	.0	.2	.2
	NO PCP	.1	.2	.2	.0	.0	.0	.0	.2	.0	.0	.6	.6
	TOT %	.2	.2	.2	.0	.0	.0	.0	.3	.0	.0	.8	.8
1<2	PCP	.0	.0	.0	.0	.0	.0	.3	.2	.0	.0	.5	.5
	NO PCP	.0	.0	.0	.0	.0	.1	.1	.0	.0	.0	.2	.2
	TOT %	.0	.0	.0	.0	.0	.1	.4	.2	.0	.0	.7	.7
2<5	PCP	.2	.1	.1	.2	.2	.0	.0	.0	.0	.0	.6	.6
	NO PCP	.2	.0	.0	.0	.0	.2	.2	.2	.0	.0	.6	.6
	TOT %	.3	.1	.1	.2	.2	.2	.2	.2	.0	.0	1.2	1.2
5<10	PCP	1.1	1.6	.5	.7	1.8	2.5	1.6	1.6	.0	.0	11.2	11.2
	NO PCP	6.5	3.9	2.1	1.5	2.9	5.7	5.5	8.7	.0	.2	37.1	37.1
	TOT %	7.7	5.5	2.6	2.1	4.4	8.3	7.2	10.3	.0	.2	48.2	48.2
10+	PCP	.2	.2	.3	.2	.3	.8	.4	.2	.0	.0	2.5	2.5
	NO PCP	6.4	5.5	3.4	1.7	3.4	8.4	9.0	7.4	.0	1.5	45.7	45.7
	TOT %	6.6	5.6	3.7	1.9	3.7	9.2	9.3	7.5	.0	1.5	48.2	48.2
TOT OBS													
TOT PCT													
		14.7	11.4	6.5	4.2	8.3	17.7	17.0	18.5	.0	1.7	100.0	653

TABLE 9

PERCENT FREQ OF WIND DIRECTION VS WIND SPEED  
WITH VARYING VALUES OF VISIBILITY

VSRY (NM)	SPD KTS	N	NE	E	SE	S	SW	W	NW	VAR	CALM	PCT	TOTAL OBS
<1/2	0-3	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
	4-10	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
	11-21	.0	.0	.0	.0	.0	.0	.1	.1	.0	.0	.1	.1
	22+	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
	TOT %	.0	.0	.0	.0	.0	.0	.1	.1	.0	.0	.1	.1
1/2<1	0-3	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
	4-10	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
	11-21	.1	.1	.1	.0	.0	.0	.0	.1	.0	.0	.4	.4
	22+	.1	.0	.0	.0	.0	.0	.0	.2	.0	.0	.3	.3
	TOT %	.1	.1	.1	.0	.0	.0	.0	.3	.0	.0	.7	.7
1<2	0-3	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
	4-10	.1	.1	.0	.0	.0	.1	.2	.0	.0	.0	.4	.4
	11-21	.0	.0	.0	.0	.0	.0	.0	.1	.0	.0	.1	.1
	22+	.0	.0	.0	.0	.0	.0	.1	.0	.0	.0	.1	.1
	TOT %	.1	.1	.0	.0	.0	.1	.3	.1	.0	.0	.7	.7
2<5	0-3	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
	4-10	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
	11-21	.1	.1	.1	.1	.1	.1	.0	.0	.0	.0	.7	.7
	22+	.1	.0	.0	.0	.1	.2	.1	.1	.0	.0	.7	.7
	TOT %	.3	.1	.1	.1	.2	.3	.1	.1	.0	.0	1.4	1.4
5<10	0-3	.5	.1	.5	.0	.6	.5	.0	.4	.0	.1	2.7	2.7
	4-10	1.6	2.1	.9	.7	1.7	2.4	2.3	2.8	.0	.0	14.6	14.6
	11-21	3.5	2.2	.9	1.2	1.5	2.1	1.9	3.6	.0	.0	16.9	16.9
	22+	1.2	.4	.0	.0	.1	2.3	2.3	2.6	.0	.0	8.9	8.9
	TOT %	6.8	4.9	2.3	1.9	3.9	7.3	6.5	9.4	.0	.1	43.2	43.2
10+	0-3	.3	.3	.3	.1	.5	.7	.7	.7	.0	1.9	5.6	5.6
	4-10	2.8	3.1	2.9	1.4	1.5	3.9	3.6	2.6	.0	.0	21.7	21.7
	11-21	4.1	2.5	.7	.6	1.4	4.1	3.9	3.8	.0	.0	21.1	21.1
	22+	.4	.4	.0	.1	.5	1.7	1.7	.8	.0	.0	5.6	5.6
	TOT %	7.6	6.3	3.8	2.2	3.9	10.4	10.0	7.9	.0	1.9	53.9	53.9
TOT OBS													
TOT PCT													
		14.9	11.4	6.3	4.2	8.0	18.1	17.0	17.9	.0	2.0	100.0	738

AUGUST

PERIOD: (PRIMARY) 1910-1969  
(OVER-ALL) 1865-1969AREA 0013 SPENCER GULF  
35.25 136.9E

TABLE 10

PERCENT FREQUENCY OF CEILING HEIGHTS (FEET, NH >4/8) AND  
OCCURRENCE OF NH <5/8 BY HOUR

HOUR (GMT)	000	150	300	600	1000	2000	3500	5000	6500	8000+	TOTAL	NH <4/8 ANY HGT	TOTAL DBS
00003	.0	.0	2.0	12.0	16.0	6.0	2.0	.0	.0	4.0	42.0	58.0	50
06009	.0	.0	1.7	1.7	15.5	5.2	1.7	1.7	.0	.0	27.6	72.4	58
12015	.0	.0	1.3	10.0	13.8	8.8	3.8	1.3	1.3	.0	40.0	60.0	80
18021	.0	.0	1.6	4.8	8.1	9.7	1.6	.0	.0	1.6	27.4	72.6	62
TOT	0	0	4	18	33	19	6	2	1	3	86	164	250
PCT	.0	.0	1.6	7.2	13.2	7.6	2.4	.8	.4	1.2	34.4	65.6	100.0

TABLE 11

PERCENT FREQUENCY VSBY (NM) BY HOUR

HOUR (GMT)	<1/2	1/2<1	1<2	2<5	5<10	10+	TOTAL DBS
00003	.0	1.2	.0	.6	54.1	44.1	170
06009	.0	.8	1.5	.8	32.1	64.9	131
12015	.0	.7	.7	1.4	44.7	52.5	295
18021	.6	.0	.6	2.4	42.4	53.9	165
TOT	1	5	3	10	336	404	761
PCT	.1	.7	.7	1.3	44.2	53.1	100.0

TABLE 12

CUMULATIVE PCT FREQ OF RANGES OF VSBY (NM) AND/OR  
CEILING HGT (FEET, NH >4/8), BY HOUR

HOUR (GMT)	<150 <50YD	<600 <1	<1000 <5	1000+ AND 5+	NH <5/8 AND 5+	TOTAL DBS
00003	.0	2.2	15.6	31.1	53.3	45
06009	.0	1.8	3.6	25.0	71.4	56
12015	.0	1.3	11.5	29.5	59.0	78
18021	.0	1.7	6.9	22.4	70.7	58
TOT	0	4	22	64	151	237
PCT	.0	1.7	9.3	27.0	63.7	100.0

TABLE 13

PERCENT FREQUENCY OF RELATIVE HUMIDITY BY TEMP

TEMP F	0-29	30-39	40-49	50-59	60-69	70-79	80-89	90-100	TOTAL DBS	PCT FREQ
60/64	.0	.0	.0	.5	2.6	3.7	3.1	.3	39	10.2
55/59	.0	.0	.5	2.1	8.4	22.5	17.3	6.0	217	56.8
50/54	.0	.0	.0	.8	6.3	7.9	14.9	2.1	122	31.9
45/49	.0	.0	.0	.0	.0	.8	.0	.3	4	1.0
TOTAL	0	0	2	13	66	133	135	33	382	100.0
PCT	.0	.0	.5	3.4	17.3	34.8	35.3	8.6		

TABLE 14

PERCENT FREQUENCY OF WIND DIRECTION BY TEMP

N	NE	E	SE	S	SW	W	NW	VAR	CALM
3.5	2.4	.8	.0	.3	.3	1.0	2.0	.0	.0
8.6	5.2	3.7	2.1	2.4	8.4	12.8	13.1	.0	.5
1.4	2.0	2.9	1.8	6.9	9.8	5.0	1.3	.0	.8
.0	.0	.0	.0	.3	.6	.2	.0	.0	.0
13.5	9.6	7.5	3.9	9.9	19.0	18.9	16.4	.0	1.3

TABLE 15

MEANS, EXTREMES AND PERCENTILES OF TEMP (DEG F) BY HOUR

HOUR (GMT)	MAX	99%	95%	50%	5%	1%	MIN	MEAN	TOTAL DBS
00003	68	64	61	56	51	49	47	55.0	341
06009	66	65	63	57	52	50	48	57.1	184
12015	63	62	60	55	50	48	47	55.4	452
18021	65	63	60	55	50	48	48	54.7	234
TOT	68	64	61	55	51	48	47	55.7	1209

TABLE 16

PERCENT FREQUENCY OF RELATIVE HUMIDITY BY HOUR

HOUR (GMT)	0-29	30-39	60-69	70-79	80-89	90-100	MEAN	TOTAL DBS
00003	.0	2.5	24.1	30.4	31.6	11.4	78	79
06009	.0	5.6	18.1	36.1	31.9	8.3	76	72
12015	.0	4.2	16.8	38.5	32.9	7.7	77	143
18021	.0	3.1	10.3	33.0	43.3	10.3	79	97
TOT	0	15	66	137	137	36	77	391

PERIOD: (PRIMARY) 1917-1969  
(OVER-ALL) 1864-1969

AUGUST

AREA 0013 SPENCER GULF  
35.25 136.9E

TABLE 17

PCT FREQ OF AIR TEMPERATURE (DEG F) AND THE OCCURRENCE OF FOG (WITHOUT PRECIPITATION)  
VS AIR-SEA TEMPERATURE DIFFERENCE (DEG F)

AIR-SEA TMP DIF	45 48	49 52	53 56	57 60	61 64	65 68	TOT	W FOG	WD FOG
9/10	.0	.0	.0	.0	.0	.2	1	.0	.2
7/8	.0	.0	.2	.0	.8	.3	8	.2	1.2
6	.0	.0	.0	.5	.8	.3	10	.0	1.7
5	.0	.0	.5	.8	1.3	.0	16	.0	2.6
4	.0	.0	.2	1.8	1.7	.0	22	.0	3.6
3	.0	.0	.3	2.3	.8	.0	21	.0	3.5
2	.0	.0	2.1	5.0	1.0	.0	49	.0	8.1
1	.0	.0	1.7	7.6	.0	.0	56	.2	9.1
0	.0	.5	8.9	7.8	.3	.0	106	.2	17.4
-1	.0	1.0	9.4	6.0	.3	.0	101	.2	16.5
-2	.0	1.7	8.1	1.7	.0	.0	69	.0	11.4
-3	.0	.5	6.9	1.0	.0	.0	51	.2	8.3
-4	.0	1.7	4.0	.0	.0	.0	34	.2	5.5
-5	.2	1.5	2.6	.0	.0	.0	26	.0	4.3
-6	.2	1.0	.3	.2	.0	.0	10	.0	1.7
-7/-8	.7	1.2	.8	.0	.0	.0	16	.0	2.6
-9/-10	.0	.3	.5	.0	.0	.0	5	.0	.8
-11/-13	.0	.2	.0	.3	.0	.0	3	.0	.5
-14/-16	.0	.2	.0	.0	.0	.0	1	.0	.2
TOTAL	6		282		43		605	6	599
PCT	1.0	9.6	46.6	34.9	7.1	.8	100.0	1.0	99.0

PERIOD: (OVER-ALL) 1963-1969

TABLE 18

PCT FREQ OF WIND SPEED (KTS) AND DIRECTION VERSUS SEA HEIGHTS (FT)

HGT	1-3	4-10	11-21	22-33	34-47	48+	PCT	1-3	4-10	11-21	22-33	34-47	48+	PCT
<1	.0	1.7	.0	.0	.0	.0	1.7	.0	1.3	.0	.0	.0	.0	1.3
1-2	.6	1.1	.6	.0	.0	.0	2.4	.6	3.6	.0	.0	.0	.0	4.2
3-4	.0	1.3	3.6	.0	.0	.0	4.9	.0	.0	1.4	.0	.0	.0	1.4
5-6	.0	.0	1.1	.5	.0	.0	1.6	.0	.0	1.3	.0	.0	.0	1.3
7	.0	.0	1.9	1.1	.0	.0	3.0	.0	.0	.0	.2	.0	.0	.2
8-9	.0	.0	.0	.0	.0	.0	.6	.0	.0	.0	.0	.0	.0	.0
10-11	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
12	.0	.0	.0	.5	.0	.0	.5	.0	.0	.0	.0	.0	.0	.0
13-16	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
17-19	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
20-22	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
23-25	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
26-32	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
33-40	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
41-48	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
49-60	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
61-70	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
71-86	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
87+	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
TOT PCT	.6	4.1	7.9	2.0	.0	.0	14.6	.6	4.9	2.7	.2	.0	.0	8.3

HGT	1-3	4-10	11-21	22-33	34-47	48+	PCT	1-3	4-10	11-21	22-33	34-47	48+	PCT
<1	.0	.6	.0	.0	.0	.0	.6	.0	.8	.0	.0	.0	.0	.0
1-2	.0	4.1	.0	.0	.0	.0	4.1	.0	.6	.0	.0	.0	.0	1.4
3-4	.0	.6	.0	.0	.0	.0	.6	.0	.0	.0	.0	.0	.0	.0
5-6	.0	.5	.6	.0	.0	.0	1.1	.0	.2	.8	.0	.0	.0	.9
7	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
8-9	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
10-11	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
12	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
13-16	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
17-19	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
20-22	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
23-25	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
26-32	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
33-40	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
41-48	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
49-60	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
61-70	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
71-86	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
87+	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
TOT PCT	.0	5.8	.6	.0	.0	.0	6.4	.0	.9	1.4	.0	.0	.0	2.4

PERIOD: (OVER-ALL) 1963-1969

AUGUST

AREA 0013 SPENCER GULF  
35.25 136.9E

TABLE 18 (CONT)

PCT FREQ OF WIND SPEED (KTS) AND DIRECTION VERSUS SEA HEIGHTS (FT)

HGT	S							PCT	SW							PCT
	1-3	4-10	11-21	22-33	34-47	48+			1-3	4-10	11-21	22-33	34-47	48+		
<1	.0	.9	.0	.0	.0	.0	.9		1.3	.3	.2	.0	.0	.0	.0	1.7
1-2	.0	1.6	.6	.0	.0	.0	2.2		.2	8.5	2.0	.0	.0	.0	.0	10.7
3-4	.0	.6	1.6	.0	.0	.0	2.2		.2	1.4	3.6	.0	.0	.0	.0	5.2
5-6	.0	.0	1.1	.6	.0	.0	1.7		.0	.0	1.9	.8	.0	.0	.0	2.7
7	.0	.0	.0	.0	.0	.0	.0		.0	.0	.0	1.4	.0	.0	.0	3.3
8-9	.0	.0	.0	.0	.0	.0	.0		.0	.0	.0	.0	.2	.0	.0	.2
10-11	.0	.0	.0	.0	.0	.0	.0		.0	.0	.0	.0	.0	.0	.0	.0
12	.0	.0	.0	.0	.0	.0	.0		.0	.0	.0	.0	.0	.0	.0	.0
13-16	.0	.0	.0	.0	.0	.0	.0		.0	.0	.0	.0	.0	.0	.0	.0
17-19	.0	.0	.0	.0	.0	.0	.0		.0	.0	.0	.0	.0	.0	.0	.0
20-22	.0	.0	.0	.0	.0	.0	.0		.0	.0	.0	.0	.0	.0	.0	.0
23-25	.0	.0	.0	.0	.0	.0	.0		.0	.0	.0	.0	.0	.0	.0	.0
26-32	.0	.0	.0	.0	.0	.0	.0		.0	.0	.0	.0	.0	.0	.0	.0
33-40	.0	.0	.0	.0	.0	.0	.0		.0	.0	.0	.0	.0	.0	.0	.0
41-48	.0	.0	.0	.0	.0	.0	.0		.0	.0	.0	.0	.0	.0	.0	.0
49-60	.0	.0	.0	.0	.0	.0	.0		.0	.0	.0	.0	.0	.0	.0	.0
61-70	.0	.0	.0	.0	.0	.0	.0		.0	.0	.0	.0	.0	.0	.0	.0
71-86	.0	.0	.0	.0	.0	.0	.0		.0	.0	.0	.0	.0	.0	.0	.0
87+	.0	.0	.0	.0	.0	.0	.0		.0	.0	.0	.0	.0	.0	.0	.0
TOT PCT	.0	3.1	3.3	1.3	.0	.0	7.7		1.6	10.2	9.6	2.4	.2	.0	.0	23.9

HGT	W							PCT	NW							PCT	TOTAL PCT
	1-3	4-10	11-21	22-33	34-47	48+			1-3	4-10	11-21	22-33	34-47	48+			
<1	.0	.6	.5	.0	.0	.0	1.1		.0	1.4	.0	.0	.0	.0	.0	1.4	
1-2	.5	4.9	.9	.0	.0	.0	6.3		.6	1.9	.8	.0	.0	.0	.0	3.3	
3-4	.5	1.6	1.7	.6	.0	.0	4.4		.0	1.4	1.3	.0	.0	.0	.0	2.7	
5-6	.0	.0	2.4	1.1	.0	.0	3.5		.0	.6	3.5	.2	.0	.0	.0	4.2	
7	.0	.6	1.3	.5	.0	.0	2.4		.0	.0	.0	.6	.0	.0	.0	.6	
8-9	.0	.0	.0	1.3	.5	.0	1.7		.0	.0	.0	.0	.0	.0	.0	.0	
10-11	.0	.0	.0	.0	.0	.0	.9		.0	.0	.0	.2	.0	.0	.0	.2	
12	.0	.0	.0	.0	.0	.0	.0		.0	.0	.0	.2	.0	.0	.0	.2	
13-16	.0	.0	.0	.0	.0	.0	.0		.0	.0	.0	.0	.0	.0	.0	.0	
17-19	.0	.0	.0	.0	.0	.0	.0		.0	.0	.0	.0	.0	.0	.0	.0	
20-22	.0	.0	.0	.6	.0	.0	.6		.0	.0	.0	.0	.0	.0	.0	.0	
23-25	.0	.0	.0	.0	.0	.0	.0		.0	.0	.0	.6	.0	.0	.0	.6	
26-32	.0	.0	.0	.0	.0	.0	.0		.0	.0	.0	.0	.0	.0	.0	.0	
33-40	.0	.0	.0	.0	.0	.0	.0		.0	.0	.0	.0	.0	.0	.0	.0	
41-48	.0	.0	.0	.0	.0	.0	.0		.0	.0	.0	.0	.0	.0	.0	.0	
49-60	.0	.0	.0	.0	.0	.0	.0		.0	.0	.0	.0	.0	.0	.0	.0	
61-70	.0	.0	.0	.0	.0	.0	.0		.0	.0	.0	.0	.0	.0	.0	.0	
71-86	.0	.0	.0	.0	.0	.0	.0		.0	.0	.0	.0	.0	.0	.0	.0	
87+	.0	.0	.0	.0	.0	.0	.0		.0	.0	.0	.0	.0	.0	.0	.0	
TOT PCT	.9	7.7	6.8	5.0	.5	.0	20.9		.6	5.3	5.5	1.7	.0	.0	.0	13.2	97.5

WIND SPEED (KTS) VS SEA HEIGHT (FT)

HGT	0-3	4-10	11-21	22-33	34-47	48+	PCT	TOT OBS
<1	3.8	6.9	.6	.0	.0	.0	11.3	
1-2	2.5	26.4	5.7	.0	.0	.0	34.6	
3-4	.6	6.9	13.2	.6	.0	.0	21.4	
5-6	.0	1.3	12.6	3.1	.0	.0	17.0	
7	.0	.6	5.0	3.8	.0	.0	9.4	
8-9	.0	.0	.6	1.9	.6	.0	3.1	
10-11	.0	.0	.0	1.3	.0	.0	1.3	
12	.0	.0	.0	.6	.0	.0	.6	
13-16	.0	.0	.0	.0	.0	.0	.0	
17-19	.0	.0	.0	.0	.0	.0	.0	
20-22	.0	.0	.0	.6	.0	.0	.6	
23-25	.0	.0	.0	.6	.0	.0	.6	
26-32	.0	.0	.0	.0	.0	.0	.0	
33-40	.0	.0	.0	.0	.0	.0	.0	
41-48	.0	.0	.0	.0	.0	.0	.0	
49-60	.0	.0	.0	.0	.0	.0	.0	
61-70	.0	.0	.0	.0	.0	.0	.0	
71-86	.0	.0	.0	.0	.0	.0	.0	
87+	.0	.0	.0	.0	.0	.0	.0	
TOT PCT	6.9	42.1	37.7	12.6	.6	.0	100.0	159

PERIOD: (OVER-ALL) 1949-1969

TABLE 19

PERCENT FREQUENCY OF WAVE HEIGHT (FT) VS WAVE PERIOD (SECONDS)

PERIOD (SEC)	<1	1-2	3-4	5-6	7	8-9	10-11	12	13-16	17-19	20-22	23-25	26-32	33-40	41-48	49-60	61-70	71-86	87+	TOTAL	MEAN HGT
<6	4.2	12.0	13.4	3.7	2.3	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	77	3
6-7	.0	.0	3.2	8.3	6.0	1.4	.9	1.4	.9	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	48	6
8-9	.0	.0	.9	5.1	5.1	1.9	2.3	.5	.0	.0	.0	.0	.5	.0	.0	.0	.0	.0	.0	35	7
10-11	.0	.9	.0	.9	.5	2.3	3.7	.5	.9	.0	.5	.0	.0	.0	.0	.0	.0	.0	.0	21	9
12-13	.0	.0	.5	.0	.9	.0	.9	.0	.5	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	8	8
13	.0	.0	.0	.5	.9	1.4	.5	.5	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	21	5
INDEF	2.8	1.4	1.4	1.9	.5	.9	.5	.0	.0	.0	.0	.0	.5	.0	.0	.0	.0	.0	.0	0	5
TOTAL	15	31	42	44	35	17	18	6	5	0	1	0	2	0	0	0	0	0	0	215	5
PCT	6.9	14.4	19.4	20.4	16.2	7.9	8.3	2.8	2.3	.0	.5	.0	.9	.0	.0	.0	.0	.0	.0	100.0	

## SEPTEMBER

PERIOD: (PRIMARY) 1910-1969  
(OVER-ALL) 1803-1969AREA 0013 SPENCER GULF  
35.25 136.9E

TABLE 1

## PERCENT FREQUENCY OF WEATHER OCCURRENCE BY WIND DIRECTION

PRECIPITATION TYPE										OTHER WEATHER PHENOMENA					
WIND DIR	RAIN	RAIN SHWR	DRZL	FRZG PCPN	SNOW	OTHER FRZN PCPN	HAIL	PCPN AT OB TIME	PCPN PAST HOUR	THDR LTNG	FGG WD PCPN	FGG WD PCPN PAST HR	SMOKE HAZE	SPRAY BLWG DUST	NO SIG WEA
N	3.7	6.1	1.9	.0	.0	.0	.0	11.7	1.9	3.7	3.7	.0	.0	.0	82.7
NE	2.3	1.5	1.5	.0	.0	.0	.0	5.3	.0	3.0	3.0	.0	.0	.0	90.2
E	1.4	.0	4.1	.0	.0	.0	.0	5.4	.0	.0	2.7	.0	.0	.0	91.6
SE	1.7	5.1	2.6	.0	.0	.0	.0	9.4	.0	.0	1.7	.0	1.7	.0	87.2
S	.8	12.0	.0	.0	.0	.0	.0	12.7	3.2	3.2	1.6	.0	1.6	.0	77.7
SW	2.4	9.9	.9	.0	.0	.0	.0	13.2	4.0	.9	.9	.0	.0	.0	81.6
W	5.4	11.2	1.7	.0	.0	.0	.0	18.3	3.7	1.7	2.5	.0	.8	.0	73.8
NW	6.9	8.4	.0	.0	.0	.0	.0	15.3	.5	.0	.0	.0	.0	.0	84.2
VAR	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
CALM	.0	.0	.0	.0	.0	.0	.0	.0	.0	6.7	.0	.0	5.7	.0	86.7
TOT PCT	3.2	7.5	1.4	.0	.0	.0	.0	12.1	2.1	1.8	1.9	.0	.7	.0	82.3
TOT OBS:	570														

TABLE 2

## PERCENT FREQUENCY OF WEATHER OCCURRENCE BY HOUR

HOUR (GMT)	PRECIPITATION TYPE							OTHER WEATHER PHENOMENA							
	RAIN	RAIN SHWR	DRZL	FRZG PCPN	SNOW	OTHER FRZN PCPN	HAIL	PCPN AT OB TIME	PCPN PAST HOUR	THDR LTNG	FGG WD PCPN	FGG WD PCPN PAST HR	SMOKE HAZE	SPRAY BLWG DUST BLWG SNOW	NO SIG WEA
00003	3.5	7.6	.7	.0	.0	.0	.0	11.8	2.1	.7	2.8	.0	.7	.0	82.6
06009	3.8	1.9	1.9	.0	.0	.0	.0	7.7	4.8	.0	1.9	.0	2.9	.0	82.7
12015	3.4	9.7	1.5	.0	.0	.0	.0	14.6	1.0	2.4	2.4	.0	.5	.0	80.1
18021	2.8	7.1	1.4	.0	.0	.0	.0	11.3	1.4	2.8	1.4	.0	.0	.0	84.4
TOT PCT	3.4	7.2	1.3	.0	.0	.0	.0	11.9	2.0	1.7	2.2	.0	.8	.0	82.2
TOT OBS:	595														

TABLE 3

## PERCENTAGE FREQUENCY OF WIND DIRECTION BY SPEED AND BY HOUR

WIND DIR	WIND SPEED (KNOTS)							TOTAL OBS	PCT FREQ	MEAN SPD	HOUR (GMT)							
	0-3	4-10	11-21	22-33	34-47	48+					00	03	06	09	12	15	18	21
N	.7	5.1	3.8	.9	.3	.0		10.8	12.1		14.7	18.3	11.5	25.0	5.7	8.8	8.1	16.7
NE	1.0	6.8	2.2	.6	.1	.0		10.6	9.4		8.3	10.0	10.2	16.7	11.8	11.9	10.8	5.6
E	.9	3.4	1.5	.5	.0	.0		6.4	10.0		7.2	8.0	6.6	8.3	2.9	7.3	7.5	.0
SE	.5	5.3	2.4	.7	.0	.0		8.8	10.4		7.9	8.0	7.0	25.0	11.1	7.6	9.6	11.1
S	.4	5.0	3.8	.7	.0	.0		9.9	11.3		8.4	6.6	10.8	8.3	10.2	11.6	11.3	11.1
SW	.7	6.7	8.4	2.6	.6	.1		19.1	14.3		19.7	19.4	15.6	16.7	20.8	16.8	21.5	5.5
W	.6	6.7	8.9	3.4	1.3	.1		21.1	16.0		22.2	14.6	22.7	.0	24.4	21.0	20.5	38.9
NW	.5	3.9	3.9	1.5	.3	.0		10.1	13.7		10.0	12.3	19.2	.0	8.6	11.0	7.3	11.1
VAR	.0	.0	.0	.0	.0	.0		.0	.0		.0	.0	.0	.0	.0	.0	.0	.0
CALM	3.2							3.2	.0		1.7	2.9	2.3	.0	4.5	4.0	3.5	.0
TOT OBS	101	511	415	130	30	3	1190		12.5		178	175	171	6	243	177	231	9
TOT PCT	8.5	42.9	34.9	10.9	2.5	.3		100.0			100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0

TABLE 3A

WIND DIR	WIND SPEED (KNOTS)					TOTAL OBS	PCT FREQ	MEAN SPD	HOUR (GMT)			
	0-6	7-16	17-27	28-40	41+				00	06	12	18
N	2.4	6.1	1.7	.5	.1		10.8	12.1	16.5	12.0	7.0	8.4
NE	4.1	5.0	1.4	.1	.0		10.6	9.4	9.1	10.5	11.8	10.6
E	2.2	3.1	.8	.3	.0		6.4	10.0	7.6	6.6	4.8	7.2
SE	2.8	4.5	1.2	.3	.0		8.8	10.4	7.9	7.6	9.6	9.7
S	2.3	5.6	1.9	.2	.0		9.9	11.3	7.5	10.7	10.8	11.3
SW	3.1	9.3	5.2	1.3	.2		19.1	14.3	19.5	19.7	19.1	20.9
W	3.4	8.0	7.4	1.8	.5		21.1	16.0	18.4	21.9	23.0	21.1
NW	2.0	5.1	2.1	.7	.2		10.1	13.7	11.1	12.7	9.6	7.4
VAR	.0	.0	.0	.0	.0		.0	.0	.0	.0	.0	.0
CALM	3.2						3.2	.0	2.3	2.3	4.3	3.3
TOT OBS	303	555	258	62	12	1190		12.5	353	177	420	240
TOT PCT	25.5	46.6	21.7	5.2	1.0		100.0		100.0	100.0	100.0	100.0



SEPTEMBER

PERIOD: (PRIMARY) 1910-1969  
(OVER-ALL) 1863-1969

AREA 0013 SPENCER GULF  
35.25 136.9E

TABLE 4

PERCENTAGE FREQUENCY OF WIND SPEED BY HOUR (GMT)

HOUR	CALM	1-3	4-10	WIND SPEED (KNOTS)			48+	MEAN	PCT FREQ	TOTAL OBS
				11-21	22-33	34-47				
0000	2.3	5.1	43.3	34.8	11.6	2.8	.0	12.7	100.0	353
0600	2.3	4.5	42.9	39.0	7.9	2.8	.0	12.5	100.0	177
1200	4.3	5.2	41.9	36.7	9.0	2.4	.5	12.3	100.0	420
1800	3.3	6.3	44.2	28.8	18.4	2.1	.0	12.4	100.0	240
TOT	38	63	511	415	130	30	3	12.5		1190
PCT	3.2	5.3	42.9	34.9	10.9	2.5	.3	100.0		

TABLE 5

PCT FREQ OF TOTAL CLOUD AMOUNT (EIGHTHS)  
BY WIND DIRECTION

WIND DIR	0-2	3-4	5-7	8 & OBSCD	TOTAL OBS	MEAN CLOUD COVER
N	2.2	2.1	3.2	2.8		5.0
NE	4.2	1.6	1.7	.4		3.0
E	1.0	1.1	3.2	.4		5.0
SE	2.6	.8	1.9	1.4		3.9
S	2.3	1.3	3.9	1.8		5.0
SW	2.7	5.9	6.1	4.8		5.0
W	6.1	3.8	13.1	4.2		4.9
NW	3.5	1.7	3.4	1.7		4.1
VAR	.0	.0	.0	.0		.0
CALM	2.8	.0	.0	.4		1.0
TOT OBS	69	46	92	46	253	4.5
TOT PCT	27.3	18.2	36.4	18.2	100.0	

TABLE 6

PERCENTAGE FREQUENCY OF CEILING HEIGHTS (FT, NH >4/8)  
AND OCCURRENCE OF NH <5/8 BY WIND DIRECTION

000	150	300	600	1000	2000	3500	5000	6500	8000+	NH <5/8	TOTAL
149	299	599	999	1999	3499	4999	6499	7999		ANY HGT	OBS
.0	.0	.0	.4	1.6	1.2	1.1	.4	.0	.4	5.1	
.0	.0	.0	.0	.5	.3	.5	.4	.0	.0	6.6	
.0	.0	.0	.0	1.1	1.3	.0	.0	.0	.0	3.3	
.0	.0	.4	.6	1.0	.4	.0	.0	.0	.0	4.2	
.0	.0	.0	.8	1.8	1.5	.4	.0	.0	.4	5.3	
.0	.0	.4	1.8	3.0	1.5	1.2	.4	.0	.8	10.6	
.0	.0	.0	1.4	7.0	3.6	.0	.8	.0	.0	14.4	
.0	.0	.0	.0	2.3	1.0	.0	.0	.0	.0	6.9	
.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
.0	.0	.0	.4	.0	.0	.0	.0	.0	.0	2.8	
.0	.0	1	13	45	26	9	5	0	4	150	253
.0	.0	.4	5.1	17.8	10.3	3.6	2.0	.0	1.6	59.3	100.0

TABLE 7

CUMULATIVE PCT FREQ OF SIMULTANEOUS OCCURRENCE  
OF CEILING HEIGHT (NH >4/8) AND VSBY (NM)

CEILING (FEET)	VSBY (NM)							
	>10	>5	>2	>1	>1/2	>1/4	>50YD	>0
>4500	1.2	1.6	1.6	1.6	1.6	1.6	1.6	1.6
>4000	2.7	3.5	3.5	3.5	3.5	3.5	3.5	3.5
>3500	6.6	7.4	7.4	7.4	7.4	7.4	7.4	7.4
>3000	19.2	17.2	17.6	17.6	17.6	17.6	17.6	17.6
>2500	29.7	34.4	34.8	34.8	34.8	34.8	34.8	34.8
>2000	32.8	39.1	39.8	39.8	39.8	39.8	39.8	39.8
>1500	33.2	39.5	40.2	40.2	40.2	40.2	40.2	40.2
>1000	33.2	39.5	40.2	40.2	40.2	40.2	40.2	40.2
>500	33.2	39.5	40.2	40.2	40.2	40.2	40.2	40.2
>0	33.2	39.5	40.2	40.2	40.2	40.2	40.2	40.2
TOTAL	85	101	103	103	103	103	103	103

TOTAL NUMBER OF OBS: 256

PCT FREQ NH <5/8: 59.8

TABLE 7A

PERCENTAGE FREQ OF LOW CLOUDS (EIGHTHS)

0	1	2	3	4	5	6	7	8	OBSCD	TOTAL OBS
17.8	12.8	6.4	14.2	7.5	8.2	9.6	10.3	13.2	.0	281

PERIOD: (PRIMARY) 1910-1969  
(OVER-ALL) 1863-1969

SEPTEMBER

AREA 0013 SPENCER GULF  
35.25 136.9E

TABLE 8

PERCENT FREQ OF WIND DIRECTION VS OCCURRENCE OR NON-OCCURRENCE OF  
PRECIPITATION WITH VARYING VALUES OF VISIBILITY

VISBY (NM)		N	NE	E	SE	S	SW	W	NW	VAR	CALM	PCT	TOTAL OBS
<1/2	PCP	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
	NO PCP	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
	TOT %	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
1/2<1	PCP	.2	.2	.0	.0	.0	.0	.0	.0	.0	.0	.0	.4
	NO PCP	.0	.2	.2	.2	.0	.2	.4	.0	.0	.0	.0	1.1
	TOT %	.2	.4	.2	.2	.0	.2	.4	.0	.0	.0	.0	1.4
1<2	PCP	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
	NO PCP	.0	.0	.0	.2	.0	.0	.0	.0	.0	.2	.4	.4
	TOT %	.0	.0	.0	.2	.0	.0	.0	.0	.0	.2	.4	.4
2<5	PCP	.0	.0	.0	.0	.0	.0	.2	.0	.0	.0	.2	.2
	NO PCP	.3	.3	.0	.0	.0	.2	.2	.0	.0	.0	.9	.9
	TOT %	.3	.3	.0	.0	.0	.2	.4	.0	.0	.0	1.1	1.1
5<10	PCP	.8	.4	.4	1.0	1.4	2.1	2.6	1.0	.0	.0	9.6	9.6
	NO PCP	2.7	5.9	3.1	5.2	4.6	6.8	5.1	3.6	.0	.5	37.5	37.5
	TOT %	3.5	6.3	3.4	6.1	6.1	8.9	7.7	4.6	.0	.5	47.2	47.2
10+	PCP	.1	.0	.0	.0	.0	.3	1.1	.4	.0	.0	1.9	1.9
	NO PCP	5.3	4.7	2.9	3.8	5.0	9.0	11.6	3.9	.0	1.9	48.1	48.1
	TOT %	5.4	4.7	2.9	3.8	5.0	9.3	12.7	4.3	.0	1.9	50.0	50.0
TOT OBS													570
TOT PCT		9.4	11.7	6.4	10.3	11.0	18.6	21.1	8.9	.0	2.6	100.0	

TABLE 9

PERCENT FREQ OF WIND DIRECTION VS WIND SPEED  
WITH VARYING VALUES OF VISIBILITY

VISBY (NM)	SFD KTS	N	NE	E	SE	S	SW	W	NW	VAR	CALM	PCT	TOTAL OBS
<1/2	0-3	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
	4-10	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
	11-21	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
	22+	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
	TOT %	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
1/2<1	0-3	.1	.1	.0	.0	.0	.0	.0	.0	.0	.0	.3	.3
	4-10	.0	.1	.1	.1	.0	.0	.0	.0	.0	.0	.4	.4
	11-21	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
	22+	.0	.0	.0	.0	.0	.1	.3	.0	.0	.0	.4	.4
	TOT %	.1	.3	.1	.1	.0	.1	.3	.0	.0	.0	1.2	1.2
1<2	0-3	.0	.0	.0	.0	.0	.0	.0	.0	.0	.1	.1	.1
	4-10	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
	11-21	.0	.0	.0	.1	.0	.0	.0	.0	.0	.0	.1	.1
	22+	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
	TOT %	.0	.0	.0	.1	.0	.0	.0	.0	.0	.1	.3	.3
2<5	0-3	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
	4-10	.2	.2	.0	.0	.1	.1	.1	.0	.0	.0	.7	.7
	11-21	.0	.0	.0	.0	.0	.0	.2	.2	.0	.0	.4	.4
	22+	.0	.0	.0	.0	.0	.1	.3	.0	.0	.0	.4	.4
	TOT %	.2	.2	.0	.0	.1	.2	.7	.2	.0	.0	1.6	1.6
5<10	0-3	.4	.4	.5	.2	.1	.1	.3	.2	.0	.4	2.7	2.7
	4-10	1.4	3.3	1.1	2.8	2.1	2.3	2.0	1.4	.0	10.3	10.3	10.3
	11-21	1.2	1.3	.7	1.4	2.6	4.5	2.8	2.1	.0	16.6	16.6	16.6
	22+	.4	.2	.6	.8	.4	1.1	1.8	.6	.0	5.9	5.9	5.9
	TOT %	3.3	5.3	2.9	5.2	5.2	8.0	6.9	4.3	.0	4	41.5	41.5
10+	0-3	.1	.0	.1	.3	.1	.4	.4	.4	.0	1.9	3.8	3.8
	4-10	2.8	3.6	2.7	3.4	3.7	3.8	4.5	2.0	.0	26.4	26.4	26.4
	11-21	2.3	.8	.9	1.0	1.5	4.2	6.2	2.0	.0	19.0	19.0	19.0
	22+	.4	.2	.0	.3	.2	2.1	2.7	.3	.0	6.2	6.2	6.2
	TOT %	5.6	4.6	3.7	5.0	5.6	10.4	13.9	4.7	.0	1.9	55.4	55.4
TOT OBS													679
TOT PCT		9.3	10.5	6.7	10.5	10.8	18.8	21.8	9.2	.0	2.5	100.0	

SEPTEMBER

PERIOD: (PRIMARY) 1910-1949  
(OVER-ALL) 1863-1969

AREA 0013 SPENCER GULF  
35.25 136.98

TABLE 10

PERCENT FREQUENCY OF CEILING HEIGHTS (FEET, NH > 4/8) AND  
OCCURRENCE OF NH < 5/8 BY HOUR

HR	000	150	300	600	1000	2000	3500	5000	6500	8000+	TOTAL	NH < 5/8 ANY HGT	TOTAL OBS
(GMT)	149	299	599	999	1999	3499	4999	6499	7999				
00003	.0	.0	.0	5.4	16.1	12.5	3.6	1.8	.0	3.6	42.9	57.1	56
06009	.0	.0	.0	3.2	17.7	9.7	4.8	1.6	.0	.0	37.1	62.9	62
12015	.0	.0	1.2	6.2	17.3	3.7	2.5	2.5	.0	1.2	34.6	65.4	81
18021	.0	.0	.0	4.3	15.7	14.3	4.3	1.4	.0	1.4	41.4	58.6	70
TOT	0	0	1	13	45	26	10	5	0	4	104	165	269
PCT	.0	.0	.4	4.8	16.7	9.7	3.7	1.9	.0	1.5	38.7	61.3	100.0

TABLE 11

PERCENT FREQUENCY VSBY (NM) BY HOUR

HR	<1/2	1/2-1	1-2	2-5	5-10	10+	TOTAL
(GMT)							OBS
00003	.0	2.4	.0	1.2	50.6	45.7	164
06009	.0	.8	1.7	.8	36.4	60.3	121
12015	.0	1.2	.4	2.3	43.2	52.9	259
18021	.0	.6	.0	1.9	37.9	59.6	161
TOT	0	9	3	12	300	381	705
PCT	.0	1.3	.4	1.7	42.6	54.0	100.0

TABLE 12

CUMULATIVE PCT FREQ OF RANGES OF VSBY (NM) AND/OR  
CEILING HGT (FEET, NH > 4/8), BY HOUR

HR	<150	<600	<1000	1000+	NH < 5/8	TOTAL
(GMT)	<50YD	<1	<5	AND 5+	AND 5+	OBS
00003	.0	.0	5.7	39.6	54.7	53
06009	.0	.0	3.4	33.9	62.7	59
12015	.0	1.3	9.0	26.9	64.1	78
18021	.0	.0	6.1	39.4	54.5	66
TOT	0	1	16	88	152	256
PCT	.0	.4	6.3	34.4	59.4	100.0

TABLE 13

PERCENT FREQUENCY OF RELATIVE HUMIDITY BY TEMP

TEMP F	0-29	30-39	40-49	50-59	60-69	70-79	80-89	90-100	TOTAL	PCT
									OBS	FREQ
65/69	.0	.0	.3	.8	.3	.5	.3	.0	7	1.8
60/64	.0	.0	.0	.3	2.6	4.2	3.7	1.8	48	12.7
55/59	.0	.0	.3	2.4	8.2	20.1	21.4	8.7	231	60.9
50/54	.0	.0	.0	1.8	6.9	7.7	5.3	2.1	90	23.7
45/49	.0	.0	.0	.0	.0	.0	.8	.0	3	.8
TOTAL	0	0	2	19	68	123	119	46	379	100.0
PCT	.0	.0	.5	5.0	17.9	32.5	31.4	12.7		

TABLE 14

PERCENT FREQUENCY OF WIND DIRECTION BY TEMP

	N	NE	E	SE	S	SW	W	NW	VAR	CALM
65/69	.5	.5	.3	.0	.0	.0	.0	.3	.0	.3
60/64	2.8	2.9	.7	.0	.7	.6	1.9	1.3	.0	1.8
55/59	4.4	5.5	3.6	4.9	5.7	12.3	14.7	8.2	.0	1.6
50/54	.2	.3	.5	2.4	4.9	8.1	6.7	.3	.0	.3
45/49	.0	.0	.0	.0	.3	.3	.3	.0	.0	.0
TOTAL	7.8	9.3	5.0	7.4	11.6	21.3	23.5	10.0	.0	4.0

TABLE 15

MEANS, EXTREMES AND PERCENTILES OF TEMP (DEG F) BY HOUR

HR	MAX	99%	95%	50%	5%	1%	MIN	MEAN	TOTAL
(GMT)									OBS
00003	71	69	64	57	52	50	47	57.2	334
06009	70	69	66	58	53	50	48	58.3	171
12015	67	65	62	56	51	49	47	55.1	420
18021	68	63	60	55	50	48	47	55.0	245
TOT	71	67	63	56	51	49	47	56.5	1170

TABLE 16

PERCENT FREQUENCY OF RELATIVE HUMIDITY BY HOUR

HR	0-29	30-59	60-69	70-79	80-89	90-100	MEAN	TOTAL
(GMT)								OBS
00003	.0	7.1	14.3	35.7	26.2	16.7	78	84
06009	.0	8.3	27.8	33.3	20.8	9.7	74	72
12015	.0	4.4	13.9	35.0	37.2	9.5	78	137
18021	.0	4.0	18.8	26.7	35.6	14.9	78	101
TOT	0	22	70	129	124	49	77	394

SEPTEMBER

PERIOD: (PRIMARY) 1910-1969  
(OVER-ALL) 1863-1969

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35.25 136.9F

TABLE 17

PCT FRQ OF AIR TEMPERATURE (DEG F) AND THE OCCURRENCE OF FOG (WITHOUT PRECIPITATION)  
VS AIR-SEA TEMPERATURE DIFFERENCE (DEG F)

AIR-SEA TMP DIF	45	49	53	57	61	65	69	TOT	N FOG	NO FOG
	48	52	56	60	64	68	72			
11/13	.0	.0	.0	.0	.2	.2	.2	3	.0	.6
9/10	.0	.0	.0	.0	.0	.8	.0	4	.2	.6
7/8	.0	.0	.0	.2	.0	.6	.2	8	.2	1.4
6	.0	.0	.0	.2	.0	.2	.0	5	.2	.8
5	.0	.0	.2	.2	3.0	.2	.0	18	.4	3.2
4	.0	.0	.6	1.6	.0	.0	.0	11	.0	2.2
3	.0	.0	.4	2.0	2.8	.0	.0	26	.2	5.0
2	.0	.0	1.0	5.4	2.2	.2	.0	44	.0	8.9
1	.0	.2	1.6	6.4	.0	.0	.0	41	.2	8.0
0	.0	1.0	7.0	9.7	.4	.0	.0	90	.6	17.5
-1	.0	.2	9.9	6.4	.2	.0	.0	83	.0	16.7
-2	.0	.6	10.9	1.2	.0	.0	.0	63	.0	12.7
-3	.0	1.0	8.7	.6	.0	.0	.0	51	.2	10.1
-4	.0	2.0	4.2	.2	.0	.0	.0	32	.0	6.4
-5	.2	.8	1.2	.2	.0	.0	.0	12	.0	2.4
-7/-8	.0	.2	.2	.0	.0	.0	.0	2	.0	.4
-9/-10	.0	.4	.0	.2	.0	.0	.0	3	.2	.4
-14/-16	.0	.0	.2	.0	.0	.0	.0	1	.0	.2
TOTAL	1	32	226	167	11	2	497	100.0	2.4	97.6
PCT	.2	6.4	45.5	33.6	11.7	2.2	.4			

PERIOD: (OVER-ALL) 1963-1969

TABLE 18

PCT FREQ OF WIND SPEED (KTS) AND DIRECTION VERSUS SEA HEIGHTS (FT)

HGT	1-3	4-10	11-21	22-33	34-47	48+	PCT	1-3	4-10	11-21	22-33	34-47	48+	PCT
<1	.0	1.6	.0	.0	.0	.0	1.6	.0	2.9	.0	.0	.0	.0	2.9
1-2	.0	1.7	1.2	.0	.0	.0	2.9	.0	1.7	.6	.0	.0	.0	2.3
3-4	.0	.6	1.7	.0	.0	.0	2.3	.0	1.2	.1	.0	.0	.0	1.3
5-6	.0	.6	1.0	.0	.0	.0	1.6	.0	.0	.7	.0	.0	.0	.7
7	.0	.0	.6	.0	.0	.0	.6	.0	.0	.0	.0	.0	.0	.0
8-9	.0	.0	.0	.4	.0	.0	.4	.0	.0	.0	.1	.0	.0	.1
10-11	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
12	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
13-16	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
17-19	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
20-22	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
23-25	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
26-32	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
33-40	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
41-48	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
49-60	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
61-70	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
71-86	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
87+	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
TOT PCT	.0	4.5	4.5	.4	.0	.0	9.4	.0	5.8	1.5	.1	.0	.0	7.4

HGT	1-3	4-10	11-21	22-33	34-47	48+	PCT	1-3	4-10	11-21	22-33	34-47	48+	PCT
<1	.0	.6	.0	.0	.0	.0	.6	.0	.6	.0	.0	.0	.0	.6
1-2	.6	4.1	.6	.0	.0	.0	5.2	.0	2.6	.0	.0	.0	.0	2.6
3-4	.0	.6	.4	.0	.0	.0	1.0	.0	.0	1.2	.6	.0	.0	2.3
5-6	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
7	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
8-9	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
10-11	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
12	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
13-16	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
17-19	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
20-22	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
23-25	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
26-32	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
33-40	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
41-48	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
49-60	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
61-70	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
71-86	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
87+	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
TOT PCT	.6	5.2	1.0	.0	.0	.0	6.8	.0	3.8	1.2	.6	.0	.0	5.5

PERIOD: (OVER-ALL) 1963-1969

SEPTEMBER

AREA 0013 SPENCER GULF  
35.25 136.9E

TABLE 18 (CONT)

PCT FREQ OF WIND SPEED (KTS) AND DIRECTION VERSUS SEA HEIGHTS (FT)

HGT	S							PCT	SW							PCT
	1-3	4-10	11-21	22-33	34-47	48+			1-3	4-10	11-21	22-33	34-47	48+		
<1	.0	.6	.0	.0	.0	.0		.6	.0	1.2	.0	.0	.0	.0		1.2
1-2	.0	5.4	1.7	.0	.0	.0		7.1	.0	3.2	1.7	.0	.0	.0		4.9
3-4	.0	.6	.0	.0	.0	.0		.6	.1	1.2	3.8	.3	.0	.0		5.4
5-6	.0	.0	.9	.0	.0	.0		.9	.0	.0	1.5	1.7	.0	.0		3.2
7	.0	.0	.0	.0	.0	.0		.0	.0	.0	.6	1.7	.0	.0		2.3
8-9	.0	.0	.0	.0	.0	.0		.0	.0	.0	.3	.0	.7	.0		1.0
10-11	.0	.0	.0	.0	.0	.0		.0	.0	.0	.6	.1	.0	.0		.7
12	.0	.0	.0	.0	.0	.0		.0	.0	.0	.0	.6	.1	.0		.7
13-16	.0	.0	.0	.0	.0	.0		.0	.0	.0	.0	.0	.0	.0		.0
17-19	.0	.0	.0	.0	.0	.0		.0	.0	.0	.0	.0	.0	.0		.0
20-22	.0	.0	.0	.0	.0	.0		.0	.0	.0	.0	.0	.0	.0		.0
23-25	.0	.0	.0	.0	.0	.0		.0	.0	.0	.0	.0	.0	.0		.0
26-32	.0	.0	.0	.0	.0	.0		.0	.0	.0	.0	.0	.0	.0		.0
33-40	.0	.0	.0	.0	.0	.0		.0	.0	.0	.0	.0	.0	.0		.0
41-48	.0	.0	.0	.0	.0	.0		.0	.0	.0	.0	.0	.0	.0		.0
49-60	.0	.0	.0	.0	.0	.0		.0	.0	.0	.0	.0	.0	.0		.0
61-70	.0	.0	.0	.0	.0	.0		.0	.0	.0	.0	.0	.0	.0		.0
71-86	.0	.0	.0	.0	.0	.0		.0	.0	.0	.0	.0	.0	.0		.0
87+	.0	.0	.0	.0	.0	.0		.0	.0	.0	.0	.0	.0	.0		.0
TOT PCT	.0	6.5	2.6	.0	.0	.0		9.2	.1	5.9	8.4	4.5	.9	.0		19.5

HGT	W							PCT	NW							PCT	TOTAL PCT
	1-3	4-10	11-21	22-33	34-47	48+			1-3	4-10	11-21	22-33	34-47	48+			
<1	.0	.6	.0	.0	.0	.0		1.2	.6	.1	.0	.0	.0	.0		.7	
1-2	.0	5.4	1.0	.0	.0	.0		6.4	.0	.9	.1	.0	.0	.0		1.0	
3-4	.4	2.8	6.0	2.0	.0	.0		11.2	.0	.7	1.3	.6	.0	.0		2.6	
5-6	.0	.0	4.8	1.2	.0	.0		6.0	.0	1.2	1.6	.6	.0	.0		3.3	
7	.0	.0	1.7	.6	.0	.0		2.3	.0	.0	.0	.0	.0	.0		.0	
8-9	.0	.6	.9	.0	.4	.0		1.9	.0	.0	.0	.6	.0	.0		.6	
10-11	.0	.0	.0	.4	.0	.0		.4	.0	.0	.0	.0	.0	.0		.0	
12	.0	.0	.0	.0	.4	.0		.4	.0	.0	.0	.0	.0	.0		.0	
13-16	.0	.0	.0	.0	.6	.0		.6	.0	.0	.0	.0	.0	.0		.0	
17-19	.0	.0	.0	.0	.6	.0		.6	.0	.0	.0	.0	.0	.0		.0	
20-22	.0	.0	.0	.0	.0	.0		.0	.0	.0	.0	.0	.0	.0		.0	
23-25	.0	.0	.0	.0	.0	.0		.0	.0	.0	.0	.0	.0	.0		.0	
26-32	.0	.0	.0	.0	.0	.0		.0	.0	.0	.0	.0	.0	.0		.0	
33-40	.0	.0	.0	.0	.0	.0		.0	.0	.0	.0	.0	.0	.0		.0	
41-48	.0	.0	.0	.0	.0	.0		.0	.0	.0	.0	.0	.0	.0		.0	
49-60	.0	.0	.0	.0	.0	.0		.0	.0	.0	.0	.0	.0	.0		.0	
61-70	.0	.0	.0	.0	.0	.0		.0	.0	.0	.0	.0	.0	.0		.0	
71-86	.0	.0	.0	.0	.0	.0		.0	.0	.0	.0	.0	.0	.0		.0	
87+	.0	.0	.0	.0	.0	.0		.0	.0	.0	.0	.0	.0	.0		.0	
TOT PCT	1.0	9.3	14.4	4.2	2.0	.0		31.0	.6	2.9	3.1	1.7	.0	.0		8.3	97.1

WIND SPEED (KTS) VS SEA HEIGHT (FT)

HGT	0-3	4-10	11-21	22-33	34-47	48+	PCT	TOT OBS
<1	4.6	8.1	.0	.0	.0	.0	12.7	
1-2	.6	24.9	6.9	.0	.0	.0	32.4	
3-4	.6	8.1	14.5	3.5	.0	.0	26.6	
5-6	.0	1.7	10.4	3.5	.0	.0	15.6	
7	.0	.0	2.9	2.3	.0	.0	5.2	
8-9	.0	.6	1.2	1.2	1.2	.0	4.0	
10-11	.0	.0	.6	.6	.0	.0	1.2	
12	.0	.0	.0	.6	.6	.0	1.2	
13-16	.0	.0	.0	.0	.6	.0	.6	
17-19	.0	.0	.0	.0	.6	.0	.6	
20-22	.0	.0	.0	.0	.0	.0	.0	
23-25	.0	.0	.0	.0	.0	.0	.0	
26-32	.0	.0	.0	.0	.0	.0	.0	
33-40	.0	.0	.0	.0	.0	.0	.0	
41-48	.0	.0	.0	.0	.0	.0	.0	
49-60	.0	.0	.0	.0	.0	.0	.0	
61-70	.0	.0	.0	.0	.0	.0	.0	
71-86	.0	.0	.0	.0	.0	.0	.0	
87+	.0	.0	.0	.0	.0	.0	.0	
TOT PCT	5.8	43.4	36.4	11.6	2.9	.0	100.0	173

PERIOD: (OVER-ALL) 1949-1969

TABLE 19

PERCENT FREQUENCY OF WAVE HEIGHT (FT) VS WAVE PERIOD (SECONDS)

PERIOD (SEC)	<1	1-2	3-4	5-6	7	8-9	10-11	12	13-16	17-19	20-22	23-25	26-32	33-40	41-48	49-60	61-70	71-86	87+	TOTAL	MEAN HGT
<6	2.9	8.1	11.0	5.2	1.9	.5	.5	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	83	3
6-7	.0	.5	3.3	8.1	5.7	1.0	1.4	1.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	45	6
8-9	.0	.0	2.4	3.3	8.1	3.8	2.9	1.4	.5	.0	.0	.0	.5	.0	.0	.0	.0	.0	.0	48	8
10-11	.0	1.0	.5	1.0	1.4	1.0	1.9	.5	1.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	17	8
12-13	.0	.0	.0	.0	.5	.0	.5	1.0	1.9	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	8	12
>13	.0	.0	.0	.0	.5	1.0	.0	.5	.5	.5	.0	.0	.0	.0	.0	.0	.0	.0	.0	5	11
INDET	2.4	1.9	1.4	1.4	1.4	1.0	1.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	27	4
TOTAL	11	24	39	40	41	17	17	9	8	3	0	0	1	0	0	0	0	0	0	210	6
PCT	5.2	11.4	18.6	19.0	19.5	8.1	8.1	4.3	3.8	1.4	.0	.0	.5	.0	.0	.0	.0	.0	.0	100.0	



PERIOD: (PRIMARY) 1909-1969  
(OVER-ALL) 1857-1969

OCTOBER

AREA 0013 SPENCER GULF  
35.15 136.9E

TABLE 1

PERCENT FREQUENCY OF WEATHER OCCURRENCE BY WIND DIRECTION

WIND DIR	PRECIPITATION TYPE							OTHER WEATHER PHENOMENA							NO SIG WEA
	RAIN	RAIN SHWR	DRZL	FRZG PCPN	SNOW	OTHER FRZN PCPN	HAIL	PCPN AT DB TIME	PCPN PAST HOUR	THDR LTNG	FOG WD PCPN	FOG WD PCPN PAST HR	SMOKE HAZE	SPRAY BLWG DUST	
N	2.1	.0	.0	.0	.0	.0	.0	2.1	2.1	6.2	5.1	.0	1.0	.0	83.6
NE	3.7	3.3	.0	.0	.0	.0	.0	7.0	.0	2.5	5.0	.0	3.3	.0	82.2
E	4.8	1.8	.0	.0	.0	.0	.0	6.6	1.8	.0	.0	.0	1.8	.0	89.9
SE	6.1	.0	3.8	.0	.0	.0	.0	9.9	1.9	.0	.0	.0	.0	.0	88.2
S	2.5	6.2	1.5	.0	.0	.0	.0	10.2	1.7	1.0	.0	.0	.0	.0	87.1
SW	.9	11.3	1.2	.0	.0	.0	.6	14.1	1.8	.3	.9	.0	.0	.0	83.2
W	3.4	10.1	.8	.0	.0	.0	.0	14.3	.8	2.9	.0	.0	.0	.0	81.5
NW	6.5	6.5	.0	.0	.0	.0	.0	13.0	.0	6.5	1.1	.0	5.4	.0	74.1
VAR	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
CALM	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	100.0
TOT PCT	3.2	6.5	1.1	.0	.0	.0	.2	10.8	1.4	1.5	1.7	.0	.9	.0	83.9
TOT OBS:	665														

TABLE 2

PERCENT FREQUENCY OF WEATHER OCCURRENCE BY HOUR

HOUR (GMT)	PRECIPITATION TYPE							OTHER WEATHER PHENOMENA							NO SIG WEA
	RAIN	RAIN SHWR	DRZL	FRZG PCPN	SNOW	OTHER FRZN PCPN	HAIL	PCPN AT DB TIME	PCPN PAST HOUR	THDR LTNG	FOG WD PCPN	FOG WD PCPN PAST HR	SMOKE HAZE	SPRAY BLWG DUST	
0000	1.6	9.7	1.6	.0	.0	.0	.0	12.9	1.6	.0	3.2	.0	.5	.0	81.7
0600	1.7	3.4	1.7	.0	.0	.0	.0	7.7	.9	.0	.9	.0	1.7	.0	88.9
1200	4.4	6.0	.4	.0	.0	.0	.0	10.7	1.2	2.4	.8	.0	.8	.0	84.1
1800	3.3	5.3	.7	.0	.0	.0	.0	9.3	1.3	3.3	1.3	.0	1.3	.0	84.1
TOT PCT	3.0	6.4	1.0	.0	.0	.0	.1	10.5	1.3	1.6	1.6	.0	1.0	.0	84.3
TOT OBS:	706														

TABLE 3

PERCENTAGE FREQUENCY OF WIND DIRECTION BY SPEED AND BY HOUR

WIND DIR	WIND SPEED (KNOTS)						TOTAL OBS	PCT FREQ	MEAN SPD	HOUR (GMT)							
	0-3	4-10	11-21	22-33	34-47	48+				00	03	06	09	12	15	18	21
N	.9	4.3	2.4	.8	.1	.1	8.5	11.5	9.4	11.9	10.1	25.0	4.4	7.1	9.3	.0	
NE	.8	4.4	3.1	.3	.0	.0	8.7	10.3	11.1	8.5	9.9	.0	6.0	8.6	9.1	25.2	
E	.8	4.0	2.7	.1	.0	.0	7.7	9.3	9.9	10.1	7.2	.0	6.4	5.7	7.4	.0	
SE	.6	4.8	3.1	.6	.0	.0	9.1	10.7	8.5	6.3	8.0	.0	9.8	10.5	11.2	12.5	
S	1.1	8.0	5.1	1.3	.1	.0	15.5	11.2	11.8	12.1	16.1	12.5	20.5	18.8	12.6	12.5	
SW	1.1	7.9	9.2	2.8	1.1	.0	22.1	14.3	20.6	19.4	26.7	50.0	25.5	22.4	18.3	.0	
W	.7	5.3	7.4	2.8	.9	.3	17.4	15.9	18.7	15.8	10.5	12.5	17.0	19.5	21.4	50.0	
NW	.3	3.4	2.7	1.5	.0	.1	7.9	14.1	8.1	11.9	8.9	.0	7.5	5.0	6.7	.0	
VAR	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
CALM	3.0						3.0	.0	2.0	4.0	2.6	.0	2.8	2.4	3.9	.0	
TOT OBS	127	579	492	142	31	6	1377	12.3	203	223	191	4	285	210	257	4	
TOT PCT	9.2	42.0	35.7	10.3	2.3	.4	100.0		100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	

TABLE 3A

WIND DIR	WIND SPEED (KNOTS)				TOTAL OBS	PCT FREQ	MEAN SPD	HOUR (GMT)			
	0-6	7-16	17-27	28-40				00	06	12	18
N	2.2	4.8	1.0	.5	.1	8.5	11.5	10.7	10.4	5.6	9.2
NE	2.7	4.7	1.2	.2	.0	8.7	10.3	9.7	9.7	7.1	9.4
E	3.1	3.7	.9	.0	.0	7.7	9.3	10.0	7.1	6.1	7.3
SE	2.2	5.4	1.4	.1	.0	9.1	10.7	7.3	7.8	10.1	11.2
S	4.2	7.9	3.2	.2	.0	15.5	11.2	12.0	16.0	19.8	12.6
SW	3.8	10.9	5.8	1.3	.3	22.1	14.3	20.0	27.2	24.2	18.0
W	2.4	7.6	5.5	1.6	.3	17.4	15.9	17.2	10.5	18.1	21.8
NW	1.5	3.8	2.0	.6	.1	7.9	14.1	10.1	8.7	6.5	6.6
VAR	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
CALM	3.0					3.0	.0	3.1	2.6	2.6	3.8
TOT OBS	342	671	290	62	1377	12.3		426	195	495	261
TOT PCT	24.8	48.7	21.1	4.5	.9	100.0		100.0	100.0	100.0	100.0

## OCTOBER

PERIOD: (PRIMARY) 1909-1969  
(OVER-ALL) 1857-1969

AREA 0013 SPENCER GULF  
35.15 136.9E

TABLE 4

## PERCENTAGE FREQUENCY OF WIND SPEED BY HOUR (GMT)

HOUR	CALM	1-3	4-10	WIND SPEED (KNOTS)				48+	MEAN	PCT FREQ	TOTAL OBS
				11-21	22-33	34-47					
00003	3.1	7.3	42.3	32.2	11.7	3.1	.5	12.4	100.0	426	
06009	2.6	7.7	44.1	36.4	8.2	1.0	.0	11.4	100.0	195	
12015	2.6	4.8	42.2	37.6	10.1	2.0	.6	12.6	100.0	495	
18021	3.8	6.1	39.8	37.5	10.0	2.3	.4	12.3	100.0	261	
TOT	41	86	579	492	142	31	6	12.3		1377	
PCT	3.0	6.2	42.0	35.7	10.3	2.3	.4	100.0			

TABLE 5

PCT FREQ OF TOTAL CLOUD AMOUNT (EIGHTHS)  
BY WIND DIRECTION

WIND DIR	0-2	3-4	5-7	8 E	TOTAL OBS	MEAN CLOUD COVER
N	2.5	2.1	.8	2.2	7.6	4.0
NE	3.9	.1	2.7	1.2	7.9	3.8
E	3.4	1.5	1.6	1.7	8.2	3.7
SE	5.6	1.8	1.9	3.1	12.4	3.7
S	1.6	4.2	7.3	4.1	27.2	5.4
SW	5.1	4.3	8.1	3.1	20.6	4.8
W	3.6	3.6	7.0	2.4	16.6	4.7
NW	2.2	2.6	3.1	1.7	9.6	4.3
VAR	.0	.0	.0	.0	.0	.0
CALM	.4	.0	.0	.0	.4	2.0
TOT OBS	67	48	77	45	237	4.5
TOT PCT	28.3	20.3	32.5	19.0	100.0	

TABLE 6

PERCENTAGE FREQUENCY OF CEILING HEIGHTS (FT, NH >4/8)  
AND OCCURRENCE OF NH <5/8 BY WIND DIRECTION

WIND DIR	000	150	300	600	1000	2000	3500	5000	6500	8000+	NH <5/8 ANY HGT	TOTAL OBS
N	149	299	599	999	1999	3499	4999	6499	7999		5.8	
NE	.0	.0	.0	.2	1.3	.4	.0	.0	.0	.0	5.2	
E	.0	.0	.0	.2	1.4	.7	.0	.0	.0	.0	5.6	
SE	.0	.0	.0	.0	.7	.5	.2	.0	.0	.0	7.7	
S	.0	.0	.4	.8	1.1	1.3	.6	.4	.0	.0	8.5	
SW	.0	.0	.0	1.7	4.2	1.3	.6	.0	.0	.0	13.0	
W	.0	.0	.0	1.7	2.8	1.6	.6	.4	.0	.0	8.6	
NW	.0	.4	1.6	2.8	1.8	.4	.0	.0	.4	.8	5.7	
VAR	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
CALM	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.4	
TOT OBS	0	1	2	15	36	20	7	2	1	7	146	237
TOT PCT	.0	.4	.8	6.3	15.2	8.4	3.0	.8	.4	3.0	61.6	100.0

TABLE 7

CUMULATIVE PCT FREQ OF SIMULTANEOUS OCCURRENCE  
OF CEILING HEIGHT (NH >4/8) AND VSBY (NM)

CEILING (FEET)	VSBY (NM)							
	>10	>5	>2	>1	>1/2	>1/4	>50YD	>0
>4500	3.3	3.3	3.3	3.3	3.3	3.3	3.3	3.3
>4000	4.1	4.1	4.1	4.1	4.1	4.1	4.1	4.1
>3500	7.0	7.0	7.0	7.0	7.0	7.0	7.0	7.0
>3000	14.8	15.2	15.2	15.2	15.2	15.2	15.2	15.2
>2500	26.2	29.1	29.9	29.9	29.9	29.9	29.9	29.9
>2000	30.7	35.2	36.1	36.1	36.1	36.1	36.1	36.1
>1500	30.7	36.1	36.9	36.9	36.9	36.9	36.9	36.9
>1000	30.7	36.5	37.3	37.3	37.3	37.3	37.3	37.3
>500	30.7	36.5	37.3	37.3	37.3	37.3	37.3	37.3
>0	30.7	36.5	37.3	37.3	37.3	37.3	37.3	37.3
TOTAL	75	89	91	91	91	91	91	91

TOTAL NUMBER OF OBS: 244

PCT FREQ NH &lt;5/8: 62.7

TABLE 7A

## PERCENTAGE FREQ OF LOW CLOUDS (EIGHTHS)

0	1	2	3	4	5	6	7	8	9	TOTAL OBS
13.2	13.2	15.0	12.9	10.7	5.4	8.9	8.6	12.1	.0	280

PERIOD: (PRIMARY) 1909-1969  
(OVER-ALL) 1857-1969

# OCTOBER

AREA 0013 SPENCER GULF  
35.15 136.9E

TABLE 8

PERCENT FREQ OF WIND DIRECTION VS OCCURRENCE OR NON-OCCURRENCE OF  
PRECIPITATION WITH VARYING VALUES OF VISIBILITY

VSBY (NM)		N	NE	E	SE	S	SW	W	NW	VAR	CALM	PCT	TOTAL OBS
<1/2	PCP	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
	NO PCP	.1	.1	.0	.0	.0	.0	.0	.0	.0	.0	.2	
	TOT %	.1	.1	.0	.0	.0	.0	.0	.0	.0	.0	.2	
1/2<1	PCP	.0	.0	.0	.0	.0	.2	.0	.0	.0	.0	.2	
	NO PCP	.3	.4	.0	.0	.0	.1	.2	.1	.0	.0	1.1	
	TOT %	.3	.4	.0	.0	.0	.2	.2	.1	.0	.0	1.2	
1<2	PCP	.0	.3	.0	.0	.0	.0	.0	.0	.0	.0	.3	
	NO PCP	.1	.3	.2	.0	.0	.0	.0	.2	.0	.0	.8	
	TOT %	.1	.6	.2	.0	.0	.0	.0	.2	.0	.0	1.1	
2<5	PCP	.0	.0	.0	.0	.0	.2	.2	.2	.0	.0	.5	
	NO PCP	.0	.0	.0	.0	.0	.3	.0	.0	.0	.0	.3	
	TOT %	.0	.0	.0	.0	.0	.5	.2	.2	.0	.0	.8	
5<10	PCP	.2	.3	.6	.8	.8	2.9	2.1	.8	.0	.0	8.4	
	NO PCP	2.8	3.3	3.9	3.4	5.8	10.9	8.0	1.9	.0	.2	40.2	
	TOT %	2.9	3.6	4.5	4.2	6.6	13.8	10.2	2.6	.0	.2	48.6	
10+	PCP	.0	.0	.0	.2	.7	.3	.3	.0	.0	.0	1.5	
	NO PCP	3.9	4.4	3.9	5.5	7.9	10.0	7.0	3.9	.0	.2	46.8	
	TOT %	3.9	4.4	3.9	5.7	8.6	10.4	7.3	3.9	.0	.2	48.3	
TOT OBS													665
TOT PCT		7.3	9.1	8.6	9.9	15.2	24.8	17.9	7.0	.0	.3	100.0	

TABLE 9

PERCENT FREQ OF WIND DIRECTION VS WIND SPEED  
WITH VARYING VALUES OF VISIBILITY

VSBY (NM)	SPD KTS	N	NE	E	SE	S	SW	W	NW	VAR	CALM	PCT	TOTAL OBS
<1/2	0-3	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
	4-10	.1	.1	.0	.0	.0	.0	.0	.0	.0	.0	.1	
	11-21	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
	22+	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
	TOT %	.1	.1	.0	.0	.0	.0	.0	.0	.0	.0	.1	
1/2<1	0-3	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
	4-10	.1	.0	.0	.0	.0	.0	.0	.0	.0	.0	.1	
	11-21	.0	.3	.0	.0	.0	.1	.1	.0	.0	.0	.5	
	22+	.1	.1	.0	.0	.0	.1	.1	.1	.0	.0	.4	
	TOT %	.3	.3	.0	.0	.0	.2	.2	.1	.0	.0	1.0	
1<2	0-3	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
	4-10	.0	.4	.1	.0	.0	.0	.0	.1	.0	.0	.6	
	11-21	.1	.1	.0	.0	.0	.0	.0	.1	.0	.0	.3	
	22+	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
	TOT %	.1	.5	.1	.0	.0	.0	.0	.2	.0	.0	.9	
2<5	0-3	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
	4-10	.0	.0	.0	.0	.0	.1	.0	.0	.0	.0	.1	
	11-21	.0	.0	.0	.0	.0	.3	.0	.1	.0	.0	.4	
	22+	.0	.0	.0	.0	.0	.0	.1	.0	.0	.0	.1	
	TOT %	.0	.0	.0	.0	.0	.4	.1	.1	.0	.0	.6	
5<10	0-3	.2	.2	.0	.3	.5	.8	.4	.1	.0	.1	2.6	
	4-10	.8	1.8	1.8	1.9	2.7	3.3	2.4	.8	.0	.0	15.6	
	11-21	.9	1.4	1.9	1.3	1.9	5.4	4.0	.7	.0	.0	17.5	
	22+	.6	.1	.1	.3	.4	2.4	2.1	.8	.0	.0	6.9	
	TOT %	2.6	3.4	3.8	3.8	5.7	11.9	8.8	2.4	.0	.1	42.5	
10+	0-3	.7	.6	.3	.4	.3	.6	.4	.1	.0	.6	4.1	
	4-10	2.8	2.0	2.1	3.2	4.6	5.1	2.7	1.2	.0	.0	23.6	
	11-21	1.3	2.7	1.9	1.7	4.2	5.0	4.2	1.8	.0	.0	22.7	
	22+	.3	.3	.0	.4	.6	1.1	1.1	.5	.0	.0	4.3	
	TOT %	5.0	5.5	4.2	5.8	9.6	11.8	8.5	3.7	.0	.6	54.8	
TOT OBS													783
TOT PCT		8.0	9.8	8.1	9.6	15.3	24.3	17.7	6.5	.0	.8	100.0	

## OCTOBER

PERIOD: (PRIMARY) 1909-1969  
(OVER-ALL) 1857-1969

AREA 0013 SPENCER GULF  
35.15 136.9E

TABLE 10

PERCENT FREQUENCY OF CEILING HEIGHTS (FEET, NH >4/8) AND  
OCCURRENCE OF NH <5/8 BY HOUR

HOUR (GMT)	000	150	300	600	1000	2000	3500	5000	6500	8000+	TOTAL	NH <5/8 ANY HGT	TOTAL OBS
00003	.0	.0	.0	6.7	15.0	8.3	5.0	.0	.0	3.3	38.3	61.7	60
06009	.0	1.9	1.9	1.9	11.3	1.9	3.8	.0	1.9	3.8	28.3	71.7	53
12015	.0	.0	1.1	5.7	13.6	10.2	1.1	2.3	.0	3.4	37.5	62.5	88
18021	.0	.0	.0	6.9	12.5	6.9	1.4	.0	.0	.0	27.8	72.2	72
TOT	0	1	2	15	36	20	7	2	1	7	91	182	273
PCT	.0	.4	.7	5.5	13.2	7.3	2.6	.7	.4	2.6	33.3	66.7	100.0

TABLE 11

PERCENT FREQUENCY VSBY (NM) BY HOUR

HOUR (GMT)	<1/2	1/2<1	1<2	2<5	5<10	10+	TOTAL OBS
00003	.0	2.5	1.0	.0	49.8	46.8	203
06009	.0	1.5	1.5	.7	41.5	54.8	135
12015	.0	.3	.3	.9	44.5	53.9	317
18021	.6	.0	1.2	.6	37.3	60.4	109
TOT	1	8	7	5	361	442	824
PCT	.1	1.0	.8	.6	43.8	53.6	100.0

TABLE 12

CUMULATIVE PCT FREQ OF RANGES OF VSBY (NM) AND/OR  
CEILING HGT (FEET, NH >4/8) BY HOUR

HOUR (GMT)	<150 <50YD	<600 <1	<1000 <5	1000+ AND 5+	NH <5/8 AND 5+	TOTAL OBS
00003	.0	.0	7.3	34.5	58.2	55
06009	.0	4.3	6.4	25.5	68.1	47
12015	.0	1.3	9.0	33.3	57.7	78
18021	.0	.0	9.4	21.9	68.8	64
TOT	0	3	20	71	153	244
PCT	.0	1.2	8.2	29.1	62.7	100.0

TABLE 13

PERCENT FREQUENCY OF RELATIVE HUMIDITY BY TEMP

TEMP F	0-29	30-39	40-49	50-59	60-69	70-79	80-89	90-100	TOTAL OBS	PCT FREQ
75/79	.0	.0	.5	.0	.5	.0	.0	.0	4	.9
70/74	.0	.0	.2	.7	.5	.0	.0	.0	6	1.4
65/69	.0	.2	.2	.9	2.4	1.9	.9	.2	29	6.9
60/64	.0	.0	.0	.7	4.5	7.3	6.6	2.1	90	21.3
55/59	.0	.0	.0	2.1	6.9	18.2	18.0	5.9	216	51.1
50/54	.0	.0	.2	.7	5.9	4.5	5.2	1.4	76	18.0
45/49	.0	.0	.0	.0	.0	.0	.2	.2	2	.5
TOTAL	0	1	5	22	87	135	131	42	423	100.0
PCT	.0	.2	1.2	5.2	20.6	31.9	31.0	9.9		

TABLE 14

PERCENT FREQUENCY OF WIND DIRECTION BY TEMP

N	NE	E	SE	S	SW	W	NW	VAR	CALM
.8	.1	.0	.0	.0	.0	.0	.0	.0	.0
.1	.5	.0	.0	.2	.0	.0	.6	.0	.0
1.9	1.8	.3	.4	.0	.5	.9	1.1	.0	.0
2.4	2.8	3.4	1.2	2.1	3.9	3.2	2.2	.0	.0
1.7	3.3	3.5	6.6	7.9	14.0	10.6	3.0	.0	.5
.5	.8	.9	3.4	5.7	4.4	2.2	.2	.0	.0
.0	.0	.0	.0	.0	.2	.0	.2	.0	.0
7.3	9.3	8.1	11.5	16.0	23.0	17.0	7.3	.0	.5

TABLE 15

MEANS, EXTREMES AND PERCENTILES OF TEMP (DEG F) BY HOUR

HOUR (GMT)	MAX	99%	95%	50%	5%	1%	MIN	MEAN	TOTAL OBS
00003	75	72	66	58	52	49	46	58.7	410
06009	75	74	68	59	54	49	48	60.1	180
12015	76	71	66	57	52	50	47	57.8	402
18021	68	66	63	56	51	50	48	56.3	247
TOT	76	71	66	58	52	49	46	58.1	1339

TABLE 16

PERCENT FREQUENCY OF RELATIVE HUMIDITY BY HOUR

HOUR (GMT)	0-29	30-59	60-69	70-79	80-89	90-100	MEAN	TOTAL OBS
00003	.0	10.4	17.0	38.7	28.3	5.7	75	106
06009	.0	6.7	33.3	29.3	17.3	13.3	74	75
12015	.0	5.9	19.6	31.4	35.3	7.8	77	153
18021	.0	5.0	14.9	28.7	36.6	14.9	78	101
TOT	0	30	88	140	134	43	76	435

AD-A044 426

NAVAL WEATHER SERVICE DETACHMENT ASHEVILLE N C F/6 4/2  
SUMMARY OF SYNOPTIC METEOROLOGICAL OBSERVATIONS (SSMO). AUSTRAL--ETC(U)  
SEP 77

F/G 4/2

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NL

5 of 6

AD  
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Ball	10
Box	20
Ball Box	30

5 of 6  
AQ44426





## OCTOBER

PERIOD: (PRIMARY) 1909-1969  
(OVER-ALL) 1857-1969

AREA 0013 SPENCER GULF  
35.15 136.9E

TABLE 17

PCT FREQ OF AIR TEMPERATURE (DEG F) AND THE OCCURRENCE OF FOG (WITHOUT PRECIPITATION)  
VS AIR-SEA TEMPERATURE DIFFERENCE (DEG F)

AIR-SEA TMP DIF	49 52	53 56	57 60	61 64	65 68	69 72	73 76	TOT	W FOG	WO FOG
14/16	.0	.0	.0	.0	.0	.0	.2	1	.0	.2
11/13	.0	.0	.0	.0	.2	.5	.7	8	.0	1.3
9/10	.0	.0	.0	.0	1.3	.5	.0	11	.3	1.5
7/8	.0	.0	.0	1.0	2.3	.2	.0	21	.0	3.5
6	.0	.0	.2	.8	1.2	.0	.0	13	.0	2.2
5	.0	.0	.2	1.3	1.0	.0	.0	15	.0	2.5
4	.0	.2	1.0	2.5	.5	.0	.0	25	.2	4.0
3	.0	.0	.8	3.8	.2	.0	.0	29	.3	4.5
2	.0	.3	2.8	2.7	.2	.2	.0	37	.0	6.2
1	.0	.5	7.2	1.8	.0	.0	.0	57	.0	9.5
0	.0	1.7	10.4	1.2	.0	.0	.0	79	.3	12.9
-1	.0	6.4	7.2	.3	.0	.0	.0	83	.0	13.9
-2	.2	9.0	3.8	.3	.2	.0	.0	81	.5	13.0
-3	.5	7.7	1.0	.0	.0	.0	.0	55	.0	9.2
-4	1.2	4.3	.7	.2	.0	.0	.0	38	.0	6.4
-5	.8	2.2	.0	.0	.0	.0	.0	18	.0	3.0
-6	1.2	1.0	.2	.0	.0	.0	.0	14	.0	2.3
-7/-8	1.0	.3	.0	.0	.0	.0	.0	8	.0	1.3
-9/-10	.5	.2	.0	.0	.0	.0	.0	4	.0	.7
-11/-13	.0	.2	.0	.0	.0	.0	.0	1	.0	.2
TOTAL	32	203	212	96	42	8	5	598	10	588
PCT	5.4	33.9	35.5	16.1	7.0	1.3	.8	100.0	1.7	98.3

PERIOD: (OVER-ALL) 1963-1969

TABLE 18

PCT FREQ OF WIND SPEED (KTS) AND DIRECTION VERSUS SEA HEIGHTS (FT)

HGT	1-3	4-10	11-21	22-33	34-47	48+	PCT	1-3	4-10	11-21	22-33	34-47	48+	PCT
<1	.6	.0	.0	.0	.0	.0	.6	.6	.0	.0	.0	.0	.0	1.2
1-2	.0	1.8	.6	.0	.0	.0	2.4	.0	.7	.6	.0	.0	.0	1.3
3-4	.0	1.2	1.8	.0	.0	.0	2.9	.0	1.1	2.9	.0	.0	.0	3.1
5-6	.0	.0	.6	.0	.0	.0	.6	.0	.0	2.6	.0	.0	.0	2.6
7	.0	.0	.0	.0	.0	.0	.0	.0	.0	.6	.0	.0	.0	.6
8-9	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
10-11	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
12	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
13-16	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
17-19	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
20-22	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
23-25	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
26-32	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
33-40	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
41-48	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
49-60	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
61-70	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
71-86	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
87+	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
TOT PCT	.6	2.9	2.9	.0	.0	.0	6.5	.6	1.5	6.8	.0	.0	.0	8.8

HGT	1-3	4-10	11-21	22-33	34-47	48+	PCT	1-3	4-10	11-21	22-33	34-47	48+	PCT
<1	.0	1.2	.0	.0	.0	.0	1.2	.0	1.2	.0	.0	.0	.0	1.2
1-2	.0	2.1	.0	.0	.0	.0	2.1	.0	2.4	.6	.0	.0	.0	2.9
3-4	.0	1.6	2.1	.0	.0	.0	3.7	.0	.6	2.1	.0	.0	.0	2.6
5-6	.0	.0	1.5	.0	.0	.0	1.5	.0	.0	2.9	1.8	.0	.0	4.7
7	.0	.0	.6	.0	.0	.0	.6	.0	.0	.0	.0	.0	.0	.0
8-9	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
10-11	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
12	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
13-16	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
17-19	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
20-22	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
23-25	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
26-32	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
33-40	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
41-48	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
49-60	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
61-70	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
71-86	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
87+	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
TOT PCT	.0	4.9	4.1	.0	.0	.0	9.0	.0	4.1	5.6	1.8	.0	.0	11.5

PERIOD: (OVER-ALL) 1963-1969

OCTOBER

AREA 0013 SPENCER GULF  
35.15 136.9E

TABLE 18 (CONT)

PCT FREQ OF WIND SPEED (KTS) AND DIRECTION VERSUS SEA HEIGHTS (FT)

S								SW								PCT	TOTAL PCT
HGT	1-3	4-10	11-21	22-33	34-47	48+	PCT	1-3	4-10	11-21	22-33	34-47	48+				
<1	.0	.6	.0	.0	.0	.0	.6	.9	.0	.0	.0	.0	.0	.9			
1-2	.0	5.1	.4	.0	.0	.0	5.6	.0	6.3	1.5	.0	.0	.0	7.8			
3-4	.0	2.4	1.6	.0	.0	.0	4.0	.0	2.9	4.6	.0	.0	.0	7.5			
5-6	.0	.0	2.6	1.2	.0	.0	3.8	.0	.0	2.6	.0	.1	.0	2.8			
7	.0	.0	1.8	.0	.0	.0	1.8	.0	.0	.0	1.2	.0	.0	1.2			
8-9	.0	.0	1.2	.0	.0	.0	1.2	.0	.0	.6	.0	.0	.0	.6			
10-11	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0			
12	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0			
13-16	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0			
17-19	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0			
20-22	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0			
23-25	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0			
26-32	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0			
33-40	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0			
41-48	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0			
49-60	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0			
61-70	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0			
71-86	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0			
87+	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0			
TOT PCT	.0	8.1	7.6	1.2	.0	.0	16.9	.9	9.3	9.3	1.2	.1	.0	20.7			

W								NW								PCT	TOTAL PCT
HGT	1-3	4-10	11-21	22-33	34-47	48+	PCT	1-3	4-10	11-21	22-33	34-47	48+				
<1	.9	.6	.0	.0	.0	.0	1.5	.6	.0	.0	.0	.0	.0	.6			
1-2	.0	2.8	.4	.0	.0	.0	3.2	.0	2.4	.0	.0	.0	.0	2.4			
3-4	.0	.4	3.2	.0	.0	.0	3.7	.0	.1	1.2	.0	.0	.0	1.3			
5-6	.0	.0	2.8	1.2	.4	.0	4.4	.0	.0	.7	.0	.0	.0	.7			
7	.0	.0	1.2	.6	.0	.0	1.8	.0	.0	.6	.0	.0	.0	.6			
8-9	.0	.0	.6	1.6	.0	.0	2.2	.0	.0	.0	.7	.0	.0	.7			
10-11	.0	.0	.6	.0	.0	.0	.6	.0	.0	.6	.0	.0	.0	.6			
12	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0			
13-16	.0	.0	.0	.6	.6	.0	1.2	.0	.0	.0	.0	.0	.0	.0			
17-19	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0			
20-22	.0	.0	.0	.0	.6	.0	.6	.0	.0	.0	.0	.0	.0	.0			
23-25	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0			
26-32	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0			
33-40	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0			
41-48	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0			
49-60	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0			
61-70	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0			
71-86	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0			
87+	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0			
TOT PCT	.9	3.8	8.8	4.0	1.6	.0	19.1	.6	2.5	3.1	.7	.0	.0	6.9			

WIND SPEED (KTS) VS SEA HEIGHT (FT)

HGT	0-3	4-10	11-21	22-33	34-47	48+	PCT	TOT OBS
<1	5.2	4.0	.0	.0	.0	.0	9.2	
1-2	.0	24.1	4.0	.0	.0	.0	28.2	
3-4	.0	9.2	19.0	.0	.0	.0	28.2	
5-6	.0	.0	16.1	4.0	.6	.0	20.7	
7	.0	.0	4.6	1.7	.0	.0	6.3	
8-9	.0	.0	2.3	2.3	.0	.0	4.6	
10-11	.0	.0	1.1	.0	.0	.0	1.1	
12	.0	.0	.0	.0	.0	.0	.0	
13-16	.0	.0	.0	.6	.6	.0	1.1	
17-19	.0	.0	.0	.0	.0	.0	.0	
20-22	.0	.0	.0	.0	.6	.0	.6	
23-25	.0	.0	.0	.0	.0	.0	.0	
26-32	.0	.0	.0	.0	.0	.0	.0	
33-40	.0	.0	.0	.0	.0	.0	.0	
41-48	.0	.0	.0	.0	.0	.0	.0	
49-60	.0	.0	.0	.0	.0	.0	.0	
61-70	.0	.0	.0	.0	.0	.0	.0	
71-86	.0	.0	.0	.0	.0	.0	.0	
87+	.0	.0	.0	.0	.0	.0	.0	
TOT PCT	5.2	37.4	47.1	8.6	1.7	.0	100.0	174

PERIOD: (OVER-ALL) 1949-1969

TABLE 19

PERCENT FREQUENCY OF WAVE HEIGHT (FT) VS WAVE PERIOD (SECONDS)

PERIOD (SEC)	<1	1-2	3-4	5-6	7	8-9	10-11	12	13-16	17-19	20-22	23-25	26-32	33-40	41-48	49-60	61-70	71-86	87+	TOTAL	MEAN HGT
<6	3.9	9.2	11.2	7.8	1.0	.5	.0	.0	.0	.5	.0	.0	.0	.0	.0	.0	.0	.0	.0	75	3
6-7	.0	.0	3.9	9.7	6.3	1.0	.5	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	45	6
8-9	.0	.0	1.0	4.9	6.8	2.9	.0	1.9	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	42	8
10-11	.0	1.0	1.0	1.9	1.5	1.5	1.9	.0	1.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	20	7
12-13	.0	.0	.0	.0	.5	1.5	.5	.5	1.0	.0	.0	.5	.0	.0	.0	.0	.0	.0	.0	9	12
>13	.0	.0	.0	.5	.5	.5	1.0	.5	.0	.0	.0	.0	.5	.0	.0	.0	.0	.0	.0	7	11
INDET	1.0	.0	1.9	1.0	.5	1.0	.5	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	13	5
TOTAL	10	21	39	53	35	17	16	4	8	1	0	1	1	0	0	0	0	0	0	206	5
PCT	4.9	10.2	16.9	25.7	17.0	8.3	7.8	1.9	3.9	.5	.0	.5	.5	.0	.0	.0	.0	.0	.0	100.0	

NOVEMBER

PERIOD: (PRIMARY) 1908-1969  
(OVER-ALL) 1854-1969

AREA 0013 SPENCER GULF  
35.15 136.9F

TABLE 1

PERCENT FREQUENCY OF WEATHER OCCURRENCE BY WIND DIRECTION

PRECIPITATION TYPE										OTHER WEATHER PHENOMENA					
WIND DIR	RAIN	RAIN SHWR	DRZL	FRZG PCPN	SNOW	OTHER FRZN PCPN	HAIL	PCPN AT DB TIME	PCPN PAST HOUR	THDR LTNG	FGG WD PCPN	FGG WD PCPN PAST HR	SMOKE HAZE	SPRAY BLWG SNOW	NO SIG WEA
N	.0	.0	2.8	.0	.0	.0	.0	2.8	.0	.0	12.5	.0	2.8	.0	81.9
NE	2.5	.0	.0	.0	.0	.0	.0	2.5	.0	7.6	.0	.0	2.5	.0	89.9
E	.0	2.7	.0	.0	.0	.0	.0	2.7	.0	1.3	.0	.0	4.0	.0	92.0
SE	1.7	1.7	.0	.0	.0	.0	.0	3.5	.0	1.3	2.2	.0	.0	.0	93.9
S	1.8	.9	.4	.0	.0	.0	.0	3.1	.7	4.0	2.7	.0	.0	.0	89.6
SW	2.7	3.4	2.4	.0	.0	.0	.6	8.9	1.0	.0	2.6	.0	1.7	.0	85.8
W	2.8	7.4	1.5	.0	.0	.0	.0	10.8	3.1	1.2	1.8	.0	1.2	.0	82.5
NW	4.2	4.2	.0	.0	.0	.0	.0	12.6	4.2	4.2	8.4	.0	.0	.0	72.6
VAR	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
CALM	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	100.0
TOT PCT	2.0	2.7	1.2	.0	.0	.0	.2	5.9	.9	1.8	2.7	.0	1.4	.0	87.8
TOT OBS:	662														

TABLE 2

PERCENT FREQUENCY OF WEATHER OCCURRENCE BY HOUR

HOUR (GMT)	PRECIPITATION TYPE								OTHER WEATHER PHENOMENA							
	RAIN	RAIN SHWR	DRZL	FRZG PCPN	SNOW	OTHER FRZN PCPN	HAIL	PCPN AT DB TIME	PCPN PAST HOUR	THDR LTNG	FGG WD PCPN	FGG WD PCPN PAST HR	SMOKE HAZE	SPRAY BLWG BLWG	DUST SNOW	NO SIG WEA
00003	2.2	1.6	1.1	.0	.0	.0	.0	4.9	.5	1.1	4.9	.0	.5	.0		88.0
06009	.8	4.1	.8	.0	.0	.0	.0	5.8	1.7	.0	3.3	.0	3.3	.0		86.0
12015	2.0	2.0	1.2	.0	.0	.0	.0	4.8	.8	2.0	1.6	.0	1.6	.0		90.0
18021	2.0	4.0	1.3	.0	.0	.0	.7	7.9	.7	4.6	3.3	.0	.0	.0		84.1
TOT PCT	1.8	2.7	1.1	.0	.0	.0	.1	5.7	.9	2.0	3.1	.0	1.3	.0		87.5
TOT OBS:	704															

TABLE 3

PERCENTAGE FREQUENCY OF WIND DIRECTION BY SPEED AND BY HOUR

WIND DIR	WIND SPEED (KNOTS)							TOTAL DBS	PCT FREQ	MEAN SPD	HOUR (GMT)							
	0-3	4-10	11-21	22-33	34-47	48+					00	03	06	09	12	15	18	21
N	1.2	2.8	1.4	.1	.1	.0		5.6	8.4		9.9	9.1	5.4	.0	2.3	2.6	5.8	.0
NE	.8	4.0	1.7	.0	.0	.0		6.6	8.4		7.6	7.1	4.0	.0	5.2	9.7	5.9	.0
E	.8	5.7	3.1	.6	.0	.0		10.3	10.1		14.3	9.6	6.9	8.3	7.9	12.2	11.4	15.7
SE	1.5	7.7	6.8	.8	.0	.0		16.8	10.5		12.3	12.7	14.6	16.7	17.7	23.0	20.0	5.0
S	1.1	8.8	7.5	1.4	.1	.0		19.0	11.8		16.4	13.8	23.0	50.0	23.3	17.6	17.7	15.0
SW	.8	7.3	11.4	3.4	.7	.1		23.7	14.9		19.1	22.2	24.7	25.0	27.5	22.2	23.8	64.0
W	1.1	3.6	4.3	2.6	.3	.0		12.9	15.0		13.0	16.5	15.4	.0	13.7	11.1	9.2	.0
NW	.3	1.5	1.1	.4	.1	.1		3.6	13.4		6.4	6.3	4.9	.0	1.3	1.7	2.6	.0
VAR	.0	.0	.0	.0	.0	.0		.0	.0		.0	.0	.0	.0	.0	.0	.0	.0
CALM	1.5							1.5	.0		1.1	2.5	1.1	.0	1.1	.0	2.6	.0
TOT DBS	112	510	473	116	15	3	1229		12.0		177	197	175	6	261	176	232	8
TOT PCT	9.1	41.5	38.5	9.4	1.2	.2		100.0			100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0

TABLE 3A

WIND DIR	WIND SPEED (KNOTS)					TOTAL DBS	PCT FREQ	MEAN SPD	HOUR (GMT)				
	0-6	7-16	17-27	28-40	41+				00	03	06	09	12
N	2.8	2.2	.5	.0	.0		5.6	8.4	9.5	5.2	2.4	5.7	
NE	2.7	3.3	.6	.0	.0		6.6	8.4	7.4	3.9	7.0	6.8	
E	2.7	6.4	.9	.2	.0		10.3	10.1	11.8	6.9	9.6	11.5	
SE	4.9	9.1	2.8	.0	.0		16.8	10.5	12.5	14.6	19.9	19.7	
S	4.2	9.9	4.5	.4	.0		19.0	11.8	15.0	23.9	21.0	17.6	
SW	2.8	11.6	7.6	1.5	.2		23.7	14.9	20.7	24.7	25.3	24.7	
W	2.7	4.9	3.7	1.6	.0		12.9	15.0	14.8	14.9	12.6	9.0	
NW	1.1	1.6	.6	.2	.2		3.6	13.4	6.4	4.7	1.5	2.5	
VAR	.0	.0	.0	.0	.0		.0	.0	.0	.0	.0	.0	
CALM	1.5						1.5	.0	1.9	1.1	.7	2.5	
TOT DBS	312	601	261	49	6	1229		12.0	374	181	437	237	
TOT PCT	25.4	48.9	21.2	4.0	.5		100.0		100.0	100.0	100.0	100.0	

PERIOD: (PRIMARY) 1908-1969  
(OVER-ALL) 1854-1969

NOVEMBER

AREA 0013 SPENCER GULF  
35.15 136.9E

TABLE 4

PERCENTAGE FREQUENCY OF WIND SPEED BY HOUR (GMT)

HOUR	CALM	1-3	4-10	WIND SPEED (KNOTS)				48+	MEAN	PCT FREQ	TOTAL OBS
				11-21	22-33	34-47					
0000	1.9	10.2	42.0	35.8	8.6	1.3	.3	11.6	100.0		374
0600	1.1	8.3	40.3	37.0	12.7	.0	.6	12.3	100.0		181
1200	.7	5.7	41.4	40.5	10.8	.7	.2	12.3	100.0		437
1800	2.5	6.8	41.8	40.1	5.9	3.0	.0	11.8	100.0		237
TOT	18	94	510	473	116	15	3	12.0			1229
PCT	1.5	7.6	41.5	38.5	9.4	1.2	.2	100.0			

TABLE 5

PCT FREQ OF TOTAL CLOUD AMOUNT (EIGHTHS)  
BY WIND DIRECTION

WIND DIR	0-2	3-4	5-7	8 & OBSCD	TOTAL OBS	MEAN CLOUD COVER
N	.0	.9	1.2	.5		5.8
NE	3.8	.1	1.2	.6		2.4
E	4.7	1.3	1.3	1.3		3.3
SE	9.4	1.5	4.3	3.4		3.7
S	4.7	3.8	7.2	5.2		5.1
SW	7.1	5.6	7.7	4.3		4.5
W	3.4	2.4	5.5	2.3		4.3
NW	1.4	.0	2.0	.9		5.1
VAR	.0	.0	.0	.0		.0
CALM	.5	.5	.0	.0		2.0
TOT OBS	74	34	64	39	211	4.2
TOT PCT	35.1	15.1	30.3	18.5	100.0	

TABLE 6

PERCENTAGE FREQUENCY OF CEILING HEIGHTS (FT) NH >4/8  
AND OCCURRENCE OF NH <5/8 BY WIND DIRECTION

	000	150	300	600	1000	2000	3500	5000	6500	8000+	NH <5/8 ANY HGT	TOTAL OBS
	149	299	599	995	1999	3499	4999	6499	7999			
N	.0	.0	.0	.0	.9	.0	.5	.0	.0	.0	1.2	
NE	.0	.0	.0	.6	.0	.5	.5	.0	.0	.0	4.1	
E	.0	.0	.0	.4	.5	.4	.5	.0	.0	.0	7.0	
SE	.0	.0	.0	.6	1.1	2.6	.9	.0	.0	.0	13.4	
S	.0	.0	.0	1.5	3.8	2.8	1.9	1.2	.0	.0	9.7	
SW	.0	.0	.5	2.0	4.3	1.9	.9	.7	.0	.0	14.3	
W	.0	.0	.0	.6	1.3	2.3	.0	.0	.0	.0	9.4	
NW	.0	.0	.0	.0	.5	1.4	.9	.0	.0	.0	1.5	
VAR	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
CALM	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
TOT OBS	0	0	1	12	26	25	13	4	0	0	130	211
TOT PCT	.0	.0	.5	5.7	12.3	11.8	6.2	1.9	.0	.0	61.6	100.0

TABLE 7

CUMULATIVE PCT FREQ OF SIMULTANEOUS OCCURRENCE  
OF CEILING HEIGHT (NH >4/8) AND VSBY (NM)

CEILING (FEET)	VSBY (NM)							
	>10	>5	>2	>1	>1/2	>1/4	>50YD	>0
>5000	.0	.0	.0	.0	.0	.0	.0	.0
>5000	1.4	1.8	1.8	1.8	1.8	1.8	1.8	1.8
>3500	6.4	7.7	7.7	7.7	7.7	7.7	7.7	7.7
>2000	15.0	18.2	19.1	19.1	19.1	19.1	19.1	19.1
>1000	24.5	30.0	30.9	30.9	30.9	30.9	30.9	30.9
>600	27.3	35.0	36.4	36.4	36.4	36.4	36.4	36.4
>300	27.7	35.5	36.8	36.8	36.8	36.8	36.8	36.8
>150	27.7	35.5	36.8	36.8	36.8	36.8	36.8	36.8
>0	27.7	35.5	36.8	36.8	36.8	36.8	36.8	36.8
TOTAL	61	78	81	81	81	81	81	81

TOTAL NUMBER OF OBS: 220

PCT FREQ NH <5/8: 63.2

TABLE 7A

PERCENTAGE FREQ OF LOW CLOUDS (EIGHTHS)

	0	1	2	3	4	5	6	7	8	OBSCD	TOTAL OBS
	18.0	13.9	10.2	11.5	8.2	5.7	9.0	11.1	12.3	.0	244



PERIOD: (PRIMARY) 1908-1969  
(OVER-ALL) 1854-1969

NOVEMBER

AREA 0013 SPENCER GULF  
35.15 136.9E

TABLE 8

PERCENT FREQ OF WIND DIRECTION VS OCCURRENCE OR NON-OCCURRENCE OF  
PRECIPITATION WITH VARYING VALUES OF VISIBILITY

VISBY (NM)		N	NE	E	SE	S	SW	W	NW	VAR	CALM	PCT	TOTAL OBS	
<1/2	PCP	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
	NO PCP	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
	TOT %	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
1/2<1	PCP	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
	NO PCP	.5	.0	.0	.4	.5	.5	.2	.3	.0	.0	2.4	2.4	
	TOT %	.5	.0	.0	.4	.5	.5	.2	.3	.0	.0	2.4	2.4	
1<2	PCP	.0	.0	.0	.0	.0	.0	.1	.1	.0	.0	.2	.2	
	NO PCP	.0	.2	.5	.0	.0	.6	.0	.0	.0	.0	1.2	1.2	
	TOT %	.0	.2	.5	.0	.0	.6	.1	.1	.0	.0	1.4	1.4	
2<5	PCP	.0	.0	.0	.0	.0	.2	.0	.0	.0	.0	.2	.2	
	NO PCP	.2	.0	.0	.0	.0	.2	.0	.3	.0	.0	.6	.6	
	TOT %	.2	.0	.0	.0	.0	.3	.0	.3	.0	.0	.8	.8	
5<10	PCP	.2	.2	.2	.5	.4	1.8	1.1	.1	.0	.0	4.2	4.2	
	NO PCP	2.9	3.3	6.9	9.3	8.5	13.6	5.5	1.0	.0	.0	50.9	50.9	
	TOT %	3.0	3.4	7.1	9.7	8.8	15.4	6.6	1.1	.0	.0	55.1	55.1	
10+	PCP	.0	.0	.2	.2	.2	.4	.2	.3	.0	.0	1.4	1.4	
	NO PCP	1.7	2.4	3.7	7.0	7.6	9.3	5.2	1.5	.0	.5	39.0	39.0	
	TOT %	1.7	2.4	3.8	7.2	7.8	9.7	5.4	1.9	.0	.5	40.3	40.3	
TOT OBS														662
TOT PCT														100.0

TABLE 9

PERCENT FREQ OF WIND DIRECTION VS WIND SPEED  
WITH VARYING VALUES OF VISIBILITY

VSBY (NM)	SPD KTS	N	NE	E	SE	S	SW	W	NW	VAR	CALM	PCT	TOTAL OBS
<1/2	0-3	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
	4-10	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
	11-21	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
	22+	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
	TOT %	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
1/2<1	0-3	.1	.0	.0	.0	.0	.1	.1	.1	.0	.0	.3	.3
	4-10	.1	.0	.0	.0	.1	.1	.1	.1	.0	.0	.4	.4
	11-21	.3	.0	.0	.3	.3	.3	.1	.1	.0	.0	1.3	1.3
	22+	.0	.0	.0	.1	.1	.0	.0	.0	.0	.0	.1	.1
	TOT %	.4	.0	.0	.3	.4	.4	.2	.3	.0	.0	2.0	2.0
1<2	0-3	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
	4-10	.0	.1	.1	.1	.0	.1	.1	.1	.0	.0	.5	.5
	11-21	.0	.1	.3	.0	.0	.0	.0	.0	.0	.0	.4	.4
	22+	.0	.0	.0	.0	.0	.4	.0	.0	.0	.0	.4	.4
	TOT %	.0	.1	.4	.1	.0	.5	.1	.1	.0	.0	1.3	1.3
2<5	0-3	.1	.0	.0	.0	.0	.0	.0	.0	.0	.0	.1	.1
	4-10	.0	.0	.0	.0	.0	.1	.0	.0	.0	.0	.1	.1
	11-21	.0	.0	.0	.0	.1	.1	.0	.1	.0	.0	.4	.4
	22+	.0	.0	.0	.0	.0	.0	.0	.1	.0	.0	.1	.1
	TOT %	.1	.0	.0	.0	.1	.3	.0	.3	.0	.0	.8	.8
5<10	0-3	.3	.3	.1	.6	.4	.3	.4	.1	.0	.1	2.6	2.6
	4-10	1.3	1.6	3.8	2.9	3.7	3.9	1.2	.2	.0	.0	18.5	18.5
	11-21	.9	.9	1.7	4.6	3.2	5.9	2.7	.5	.0	.0	20.4	20.4
	22+	.1	.0	.4	.1	.4	3.1	1.4	.1	.0	.0	5.6	5.6
	TOT %	2.5	2.9	6.0	8.2	7.8	13.3	5.6	.9	.0	.1	47.2	47.2
10+	0-3	.4	.4	.3	.6	.5	.5	.7	.3	.0	1.0	4.8	4.8
	4-10	1.0	1.9	2.2	5.1	4.7	4.4	2.1	.8	.0	.0	22.1	22.1
	11-21	.4	.6	1.3	3.2	4.0	5.4	2.5	.4	.0	.0	17.8	17.8
	22+	.0	.0	.4	.4	1.1	1.0	.8	.3	.0	.0	4.1	4.1
	TOT %	1.8	2.9	4.2	9.3	10.3	11.3	6.2	1.7	.0	1.0	48.7	48.7
TOT OBS													798
TOT PCT													100.0

## NOVEMBER

PERIOD: (PRIMARY) 1908-1969  
(OVER-ALL) 1854-1969AREA 0013 SPENCER GULF  
35.15 136.9E

TABLE 10

PERCENT FREQUENCY OF CEILING HEIGHTS (FEET, NH > 4/8) AND  
OCCURRENCE OF NH < 5/8 BY HOUR

HR	000	150	300	600	1000	2000	3500	5000	6500	8000+	TOTAL	NH < 5/8 ANY HGT	TOTAL OBS
(GMT)	149	299	599	999	1999	3499	4999	6499	7999				
00003	.0	.0	2.1	2.1	10.6	6.4	12.8	6.4	.0	.0	40.4	59.6	47
06009	.0	.0	.0	4.4	13.3	13.3	6.7	.0	.0	.0	37.8	62.2	45
12015	.0	.0	.0	4.3	5.8	14.5	1.4	.0	.0	.0	26.1	73.9	69
18021	.0	.0	.0	8.5	15.5	8.5	4.2	1.4	.0	.0	38.0	62.0	71
TOT	0	0	1	12	26	25	13	4	0	0	81	151	232
PCT	.0	.0	.4	5.2	11.2	10.8	5.6	1.7	.0	.0	34.9	65.1	100.0

TABLE 11

PERCENT FREQUENCY VS BY (NM) BY HOUR

HR	<1/2	1/2<1	1<2	2<5	5<10	10+	TOTAL
(GMT)							OBS
00003	.0	4.3	.9	.0	53.1	41.7	211
06009	.0	2.9	2.2	2.2	44.1	48.5	136
12015	.0	1.3	1.3	.0	50.0	47.4	312
18021	.6	1.1	.6	1.7	39.2	56.9	181
TOT	1	19	10	6	399	405	840
PCT	.1	2.3	1.2	.7	47.5	48.2	100.0

TABLE 12

CUMULATIVE PCT FREQ OF RANGES OF VS BY (NM) AND/OR  
CEILING HGT (FEET, NH > 4/8), BY HOUR

HR	<150	<600	<1000	1000+	NH < 5/8	TOTAL
(GMT)	<50YD	<1	<5	AND 5+	AND 5+	OBS
00003	.0	2.1	4.3	36.2	59.6	47
06009	.0	.0	9.3	30.2	60.5	43
12015	.0	.0	4.8	23.8	71.4	63
18021	.0	.0	9.0	31.3	59.7	67
TOT	0	1	15	66	139	220
PCT	.0	.5	6.8	30.0	63.2	100.0

TABLE 13

PERCENT FREQUENCY OF RELATIVE HUMIDITY BY TEMP

TEMP F	0-29	30-39	40-49	50-59	60-69	70-79	80-89	90-100	TOTAL	PCT
									OBS	FREQ
75/79	.0	.0	.5	.3	.0	.0	.0	.0	3	.8
70/74	.0	.0	.3	.0	1.6	.8	.3	.0	11	2.9
65/69	.0	.3	.0	.3	3.2	4.0	1.6	1.1	39	10.5
60/64	.0	.0	.0	1.1	6.2	9.7	10.2	5.1	120	32.2
55/59	.0	.0	.0	.8	8.6	17.7	13.4	5.6	172	46.1
50/54	.0	.0	.3	.5	2.1	2.1	1.9	.5	28	7.5
TOTAL	0	1	4	11	81	128	102	46	373	100.0
PCT	.0	.3	1.1	2.9	21.7	34.3	27.3	12.3		

TABLE 14

PERCENT FREQUENCY OF WIND DIRECTION BY TEMP

N	NE	E	SE	S	SW	W	NW	VAR	CALM
.4	.1	.3	.0	.0	.0	.0	.0	.0	.0
.8	.8	.0	.1	.3	.7	.0	.3	.0	.0
1.3	.9	.9	2.9	1.4	.9	1.1	.9	.0	.0
.9	2.8	4.3	5.4	5.0	6.8	6.1	.6	.0	.3
.5	1.2	4.2	8.3	9.9	14.6	5.5	1.3	.0	.5
.0	.0	.0	.6	1.4	4.4	1.1	.0	.0	.0
4.0	5.9	9.7	17.4	18.0	27.3	13.7	3.2	.0	.8

TABLE 15

MEANS, EXTREMES AND PERCENTILES OF TEMP (DEG F) BY HOUR

HR	MAX	99%	95%	50%	5%	1%	MIN	MEAN	TOTAL
(GMT)									OBS
00003	80	75	70	61	55	53	52	61.5	351
06009	78	77	71	62	57	54	53	62.8	168
12015	78	74	68	59	54	53	50	59.6	427
18021	70	68	65	58	53	51	49	58.3	231
TOT	80	74	68	60	54	53	49	60.4	1177

TABLE 16

PERCENT FREQUENCY OF RELATIVE HUMIDITY BY HOUR

HR	0-29	30-59	60-69	70-79	80-89	90-100	MEAN	TOTAL
(GMT)								OBS
00003	.0	4.6	34.5	31.0	23.0	6.9	73	87
06009	.0	6.1	21.2	40.9	21.2	10.6	75	86
12015	.0	2.2	20.0	35.6	31.1	11.1	77	135
18021	.0	6.6	12.3	34.9	28.3	17.9	78	106
TOT	0	18	84	139	106	47	76	394

PERIOD: (PRIMARY) 1908-1969  
(OVER-ALL) 1854-1969

# NOVEMBER

AREA 0013 SPENCER GULF  
35.15 136.9E

TABLE 17

PCT FREQ OF AIR TEMPERATURE (DEG F) AND THE OCCURRENCE OF FOG (WITHOUT PRECIPITATION)  
VS AIR-SEA TEMPERATURE DIFFERENCE (DEG F)

AIR-SEA TMP DIF	49 52	53 56	57 60	61 64	65 68	69 72	73 76	77 80	TOT	W FOG	WO FOG
14/16	.0	.0	.0	.0	.0	.0	.2	.2	2	.0	.4
11/13	.0	.0	.0	.0	.0	.2	.6	.0	4	.0	.7
9/10	.0	.0	.0	.0	.2	.6	.4	.0	6	.0	1.1
7/8	.0	.0	.2	.2	.4	.6	.7	.2	12	.0	2.2
6	.0	.0	.4	.6	1.3	.6	.2	.0	16	.0	2.9
5	.0	.0	.0	.6	2.0	.7	.0	.0	18	.2	3.1
4	.0	.0	.2	.7	2.9	.6	.0	.0	24	.2	4.2
3	.0	.0	.4	2.4	2.4	.0	.0	.0	28	.2	5.0
2	.0	.2	1.1	2.6	2.2	.2	.0	.0	34	.2	6.1
1	.0	.0	1.7	5.7	.7	.0	.0	.0	44	.2	7.9
0	.0	.0	7.3	5.9	.4	.0	.0	.0	74	.7	12.8
-1	.0	1.1	9.7	2.8	.0	.0	.0	.0	74	.7	12.8
-2	.0	2.4	7.3	2.0	.2	.0	.0	.0	65	1.1	10.8
-3	.0	5.7	6.2	.4	.0	.0	.0	.0	67	.4	11.9
-4	.0	5.0	3.1	.2	.0	.0	.0	.0	45	.0	8.3
-5	.0	2.0	.6	.2	.0	.0	.0	.0	15	.0	2.8
-6	.2	.7	.4	.2	.0	.0	.0	.0	8	.0	1.5
-7/-8	.2	.6	.6	.0	.0	.0	.0	.0	7	.0	1.3
-11/-13	.2	.0	.2	.0	.0	.0	.0	.0	2	.2	.2
TOTAL	3	96	132	59	18	2	545				
PCT	.6	17.6	39.3	24.2	12.7	3.3	2.0	.4	100.0	4.0	96.0

PERIOD: (OVER-ALL) 1963-1969

TABLE 18

PCT FREQ OF WIND SPEED (KTS) AND DIRECTION VERSUS SEA HEIGHTS (FT)

HGT	1-3	4-10	11-21	22-33	34-47	48+	PCT	1-3	4-10	11-21	22-33	34-47	48+	PCT
<1	.0	.0	.0	.0	.0	.0	.0	1.5	2.0	.0	.0	.0	.0	3.5
1-2	.7	.7	.0	.0	.0	.0	2.0	.0	1.3	.0	.0	.0	.0	1.3
3-4	.0	.7	.0	.0	.0	.0	.0	.0	.7	.0	.0	.0	.0	.7
5-6	.0	.0	.7	.0	.0	.0	.7	.0	.7	.0	.0	.0	.0	1.3
7	.0	.0	.0	.0	.0	.0	.0	.0	.0	.2	.0	.0	.0	.2
8-9	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
10-11	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
12	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
13-16	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
17-19	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
20-22	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
23-25	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
26-32	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
33-40	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
41-48	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
49-60	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
61-70	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
71-86	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
87+	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
TOT PCT	.7	1.3	1.3	.0	.0	.0	3.3	1.5	4.7	.8	.0	.0	.0	7.0

HGT	1-3	4-10	11-21	22-33	34-47	48+	PCT	1-3	4-10	11-21	22-33	34-47	48+	PCT
<1	.5	2.0	.0	.0	.0	.0	2.5	.0	3.2	.0	.0	.0	.0	3.3
1-2	.0	2.0	.0	.0	.0	.0	.0	.0	2.2	2.2	.0	.0	.0	4.3
3-4	.0	1.3	1.8	.0	.0	.0	3.2	.0	2.0	1.5	.7	.0	.0	4.2
5-6	.0	.0	.7	.0	.0	.0	.7	.0	.2	2.0	.7	.0	.0	2.8
7	.0	.0	.5	.0	.0	.0	.5	.0	.0	.0	.0	.0	.0	.0
8-9	.0	.0	.5	.0	.0	.0	.5	.0	.0	.2	.0	.0	.0	.2
10-11	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.7	.0	.0	.7
12	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
13-16	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
17-19	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
20-22	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
23-25	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
26-32	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
33-40	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
41-48	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
49-60	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
61-70	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
71-86	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
87+	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
TOT PCT	.5	5.3	3.5	.0	.0	.0	9.3	.0	7.7	5.8	2.0	.0	.0	15.5

PERIOD: (OVER-ALL) 1963-1969

NOVEMBER

AREA 0013 SPENCER GULF  
35.15 136.9E

TABLE 18 (CONT)

PCT FREQ OF WIND SPEED (KTS) AND DIRECTION VERSUS SEA HEIGHTS (FT)

HGT	S							SW						
	1-3	4-10	11-21	22-33	34-47	48+	PCT	1-3	4-10	11-21	22-33	34-47	48+	PCT
<1	1.0	1.2	.0	.0	.0	.0	2.2	1.0	1.2	.0	.0	.0	.0	2.5
1-2	.0	4.3	1.7	.0	.0	.0	6.0	.0	2.2	2.2	.0	.0	.0	4.7
3-4	.0	1.7	3.5	.5	.0	.0	5.7	.0	3.2	5.2	.8	.0	.0	9.2
5-6	.0	.5	3.0	1.2	.0	.0	4.7	.0	.0	3.6	1.5	.0	.0	5.3
7	.0	.0	.0	.0	.0	.0	.0	.0	.0	2.2	.7	.0	.0	3.5
8-9	.0	.0	.0	.0	.7	.0	.7	.0	.0	.0	.7	.0	.0	.7
10-11	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.8	.0	.0	.8
12	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
13-16	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
17-19	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.7	.0	.7
20-22	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
23-25	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
26-32	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
33-40	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
41-48	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
49-60	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
61-70	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
71-86	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
87+	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
TOT PCT	1.0	7.7	8.2	1.7	.7	.0	19.2	1.0	7.2	13.3	4.5	1.3	.0	27.3

HGT	W							NW							TOTAL PCT
	1-3	4-10	11-21	22-33	34-47	48+	PCT	1-3	4-10	11-21	22-33	34-47	48+	PCT	
<1	.5	.7	.0	.0	.0	.0	1.2	.2	.7	.0	.0	.0	.0	.8	98.7
1-2	.0	3.0	1.3	.0	.0	.0	4.3	.0	.7	.0	.0	.0	.0	.7	
3-4	.0	1.2	1.3	.0	.0	.0	2.5	.0	.7	.0	.0	.0	.0	.7	
5-6	.0	.0	1.8	.7	.0	.0	2.5	.0	.0	.0	.0	.0	.0	.0	
7	.0	.0	.5	1.3	.0	.0	1.8	.0	.0	.0	.0	.0	.0	.0	
8-9	.0	.0	.0	.7	.0	.0	.7	.0	.0	.0	.7	.0	.0	.7	
10-11	.0	.0	.0	1.2	.0	.0	1.2	.0	.0	.0	.0	.0	.0	.0	
12	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
13-16	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
17-19	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
20-22	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
23-25	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
26-32	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
33-40	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
41-48	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
49-60	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
61-70	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
71-86	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
87+	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
TOT PCT	.5	4.8	5.0	3.8	.0	.0	14.2	.2	2.0	.0	.7	.0	.0	2.8	

WIND SPEED (KTS) VS SEA HEIGHT (FT)

HGT	0-3	4-10	11-21	22-33	34-47	48+	PCT	TOT OBS
<1	7.8	11.0	.0	.0	.0	.0	.0	18.8
1-2	1.3	16.2	7.8	.0	.0	.0	.0	25.3
3-4	.0	11.0	13.0	1.9	.0	.0	.0	26.0
5-6	.0	1.3	12.3	3.9	.0	.0	.0	17.5
7	.0	.0	3.2	1.9	.6	.0	.0	5.8
8-9	.0	.0	.6	1.9	.6	.0	.0	3.2
10-11	.0	.0	.0	2.6	.0	.0	.0	2.6
12	.0	.0	.0	.0	.0	.0	.0	.0
13-16	.0	.0	.0	.0	.0	.0	.0	.0
17-19	.0	.0	.0	.0	.6	.0	.0	.6
20-22	.0	.0	.0	.0	.0	.0	.0	.0
23-25	.0	.0	.0	.0	.0	.0	.0	.0
26-32	.0	.0	.0	.0	.0	.0	.0	.0
33-40	.0	.0	.0	.0	.0	.0	.0	.0
41-48	.0	.0	.0	.0	.0	.0	.0	.0
49-60	.0	.0	.0	.0	.0	.0	.0	.0
61-70	.0	.0	.0	.0	.0	.0	.0	.0
71-86	.0	.0	.0	.0	.0	.0	.0	.0
87+	.0	.0	.0	.0	.0	.0	.0	.0
TOT PCT	9.1	39.6	37.0	12.3	1.9	.0	100.0	154

PERIOD: (OVER-ALL) 1949-1969

TABLE 19

PERCENT FREQUENCY OF WAVE HEIGHT (FT) VS WAVE PERIOD (SECONDS)

PERIOD (SEC)	<1	1-2	3-4	5-6	7	8-9	10-11	12	13-16	17-19	20-22	23-25	26-32	33-40	41-48	49-60	61-70	71-86	87+	TOTAL	MEAN HGT
<6	3.6	9.4	12.0	7.3	1.6	1.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	67	3
6-7	.0	1.0	4.7	4.7	4.7	1.6	1.0	.0	.5	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	35	6
8-9	.0	.5	1.0	3.6	4.2	3.1	2.6	1.6	2.6	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	37	8
10-11	.0	.0	1.6	1.6	1.6	2.6	2.6	.5	1.6	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	23	8
12-13	.0	.0	.0	.5	.5	.5	1.0	1.6	.0	.0	.5	.5	.0	.0	.0	.0	.0	.0	.0	10	12
13-14	.0	.0	.0	.5	.5	.0	.0	.0	1.0	.0	.5	.0	.0	.0	.0	.0	.0	.0	.0	5	12
INDET	2.6	1.6	1.6	.0	.5	.0	.5	.0	1.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	15	4
TOTAL	12	24	40	35	26	17	15	7	12	1	2	1	0	0	0	0	0	0	0	192	5
PCT	6.3	12.5	20.8	18.2	13.5	8.9	7.8	3.6	6.3	.5	1.0	.5	.0	.0	.0	.0	.0	.0	.0	100.0	

PERIOD: (PRIMARY) 1907-1969  
(OVER-ALL) 1854-1969

# DECEMBER

AREA 0013 SPENCER GULF  
35.25 136.8E

TABLE 1

PERCENT FREQUENCY OF WEATHER OCCURRENCE BY WIND DIRECTION

PRECIPITATION TYPE										OTHER WEATHER PHENOMENA						
WIND DIR	RAIN	RAIN SHWR	DRZL	FRZG PCPN	SNOW	OTHER FRZN PCPN	HAIL	PCPN AT OB TIME	PCPN PAST HOUR	THDR LTNG	FOG WD PCPN	FOG WD PCPN PAST HR	SMOKE HAZE	SPRAY BLWG DUST	NO SIG WEA	
N	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	19.7	.0	80.3	
NE	3.3	.0	.0	.0	.0	.0	.0	3.3	3.3	3.3	6.6	.0	4.9	.0	78.7	
E	.0	.0	2.0	.0	.0	.0	.0	2.0	.0	2.0	11.1	.0	3.0	.0	81.9	
SE	.0	2.1	.8	.0	.0	.0	.0	2.9	1.9	.2	2.1	.0	.8	.0	92.1	
S	2.5	4.9	.9	.0	.0	.0	.0	8.3	2.9	.5	2.1	.0	1.8	.0	84.4	
SW	1.0	9.9	2.4	.0	.0	.0	.0	13.3	1.5	.0	.7	.0	1.0	.0	83.5	
W	4.3	8.5	3.6	.0	.0	.0	.0	16.4	3.3	2.4	3.0	.0	.6	.0	76.6	
NW	.0	13.1	.0	.0	.0	.0	.0	13.1	.0	.0	6.6	.0	.0	.0	80.3	
VAR	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
CALM	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	16.7	.0	33.3	.0	50.0	
TOT PCT	1.6	5.4	1.6	.0	.0	.0	.0	8.6	2.1	.8	3.0	.0	2.2	.0	83.6	
TOT OBS:	629															

TABLE 2

PERCENT FREQUENCY OF WEATHER OCCURRENCE BY HOUR

HOUR (GMT)	PRECIPITATION TYPE							OTHER WEATHER PHENOMENA							
	RAIN	RAIN SHWR	DRZL	FRZG PCPN	SNOW	OTHER FRZN PCPN	HAIL	PCPN AT OB TIME	PCPN PAST HOUR	THOR LTNG	FGG WD PCPN	FGG WD PCPN PAST HR	SMOKE HAZE	SPRAY BLWG DUST	NO SIG WEA
00603	.6	7.2	1.2	.0	.0	.0	.0	9.0	.6	.0	3.6	.0	3.6	.0	83.2
06609	1.8	2.7	.0	.0	.0	.0	.0	4.5	1.8	.0	1.8	.0	4.5	.0	87.3
12615	2.5	4.6	2.1	.0	.0	.0	.0	9.1	1.7	1.7	4.1	.0	1.2	.0	83.0
18621	.7	5.5	2.7	.0	.0	.0	.0	8.9	4.1	.7	2.1	.0	1.4	.0	82.9
TOT PCT	1.5	5.1	1.7	.0	.0	.0	.0	8.3	2.0	.8	3.2	.0	2.4	.0	83.7
TOT OBS:	664														

TABLE 3

PERCENTAGE FREQUENCY OF WIND DIRECTION BY SPEED AND BY HOUR

WIND DIR	WIND SPEED (KNOTS)							TOTAL OBS	PCT FREQ	MEAN SPD	HOUR (GMT)							
	0-3	4-10	11-21	22-33	34-47	48+					00	03	06	09	12	15	18	21
N	.7	1.2	.6	.0	.0	.0		2.4	7.2		3.7	2.8	2.0	.0	2.2	1.4	2.6	.0
NE	.8	2.9	1.0	.1	.0	.0		4.7	7.9		7.0	5.4	3.6	25.0	2.3	4.8	5.5	.0
E	.8	4.0	2.5	.3	.0	.0		7.6	9.9		9.3	6.2	2.8	.0	6.3	9.9	11.1	50.7
SE	.7	6.6	8.1	2.2	.0	.0		17.5	13.1		16.9	18.2	13.3	.0	20.0	15.6	19.8	50.0
S	1.5	10.6	9.9	1.8	.2	.0		23.9	11.7		21.6	18.7	29.5	37.5	26.3	24.7	22.5	.0
SW	.9	10.2	11.0	3.3	.3	.0		25.6	13.2		22.3	25.5	28.2	12.5	29.0	25.0	22.9	.0
W	.5	4.7	5.5	2.2	.2	.0		13.1	14.2		12.7	16.0	14.8	25.0	11.1	11.6	12.5	.0
NW	.3	1.3	1.1	.1	.0	.0		2.8	10.7		3.4	5.6	3.1	.0	1.2	3.4	1.0	.0
VAR	.0	.0	.0	.0	.0	.0		.0	.0		.0	.0	.0	.0	.0	.0	.0	.0
CALM	2.4							2.4	.0		3.0	1.5	2.8	.0	1.5	3.4	2.4	.0
TOT OBS	101	490	466	117	7	0	1181		11.9		167	195	179	4	248	176	210	2
TOT PCT	8.6	41.5	39.5	9.9	.6	.0		100.0			100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0

TABLE 3A

WIND DIR	WIND SPEED (KNOTS)					TOTAL OBS	PCT FREQ	MEAN SPD	HOUR (GMT)			
	0-6	7-16	17-27	28-40	41+				00	06	12	18
N	1.2	1.1	.1	.0	.0				3.2	1.9	1.9	2.6
NE	2.0	2.5	.2	.0	.0				6.1	4.1	3.4	5.4
E	2.2	4.5	.9	.4	.0				7.6	9.9	7.8	11.4
SE	2.9	8.7	5.5	.8	.0				17.5	13.1	17.6	19.9
S	5.5	13.0	4.7	.6	.0				23.9	11.7	20.0	25.6
SW	9.5	12.5	7.6	.9	.0				25.6	13.2	24.0	27.4
W	2.0	6.0	4.4	.7	.0				13.1	14.2	14.5	11.3
NW	.6	1.7	.5	.1	.0				2.8	10.7	4.6	3.0
VAR	.0	.0	.0	.0	.0				.0	.0	.0	.0
CALM	2.4								2.4	.0	2.2	2.7
TOT OBS	276	590	284	31	0	1181		11.9	362	183	424	212
TOT PCT	23.4	50.0	24.0	2.6	.0				100.0	100.0	100.0	100.0



PERIOD: (PRIMARY) 1907-1969  
(OVER-ALL) 1854-1969

DECEMBER

AREA 0013 SPENCER GULF  
35.25 136.8E

TABLE 4

PERCENTAGE FREQUENCY OF WIND SPEED BY HOUR (GMT)

HOUR	CALM	1-3	4-10	WIND SPEED (KNOTS)				48+	MEAN	PCT FREQ	TOTAL OBS
				11-21	22-33	34-47					
00003	2.2	8.8	43.6	34.3	10.5	.6	.0	.0	11.5	100.0	362
06009	2.7	4.4	35.0	42.6	13.7	1.6	.0	.0	13.2	100.0	183
12015	2.4	5.2	43.2	40.3	8.5	.5	.0	.0	11.9	100.0	424
18021	2.4	5.2	40.1	43.9	8.5	.0	.0	.0	11.7	100.0	212
TOT	28	73	490	466	117	7	.0	.0	11.9		1181
PCT	2.4	6.2	41.5	39.5	9.9	.6	.0	.0	100.0		

TABLE 5

PCT FREQ OF TOTAL CLOUD AMOUNT (EIGHTHS)  
BY WIND DIRECTION

WIND DIR	0-2	3-4	5-7	8 & OBSCD	TOTAL OBS	MEAN CLOUD COVER
N	.0	.5	.9	.0		5.6
NE	1.6	1.1	1.6	1.1		4.2
E	2.7	.4	1.1	1.3		3.7
SE	8.0	3.6	6.0	4.3		4.2
S	8.4	4.4	8.8	5.3		4.5
SW	5.6	3.6	9.6	2.4		4.5
W	2.7	2.2	7.6	2.8		5.1
NW	.0	.0	.9	1.0		6.7
VAR	.0	.0	.0	.0		.0
CALW	.5	.0	.0	.0		.0
TOT OBS	58	31	72	36	197	4.5
TOT PCT	29.4	15.7	36.5	18.3	100.0	

TABLE 6

PERCENTAGE FREQUENCY OF CEILING HEIGHTS (FT, NH >4/8)  
AND OCCURRENCE OF NH <5/8 BY WIND DIRECTION

	000 149	150 299	300 599	600 999	1000 1999	2000 3499	3500 4999	5000 6499	6500 7999	8000+	NH <5/8 ANY HGT	TOTAL OBS
N	.0	.0	.0	.0	.0	.5	.0	.0	.0	.0	.9	
NE	.0	.0	.0	.0	.0	1.1	.5	.0	.0	.0	3.9	
E	.0	.0	.0	.4	.5	.4	.0	.0	.0	.5	3.7	
SE	.0	.1	.0	1.1	3.6	2.7	.5	.5	.0	.0	13.3	
S	.0	.4	1.0	2.7	3.6	1.8	.0	.5	.5	.0	16.5	
SW	.0	.0	.5	1.1	1.5	1.6	1.5	.0	.0	.0	14.8	
W	.0	.0	.5	.8	2.9	1.0	1.5	.0	.5	.5	7.5	
NW	.0	.0	.0	.0	1.1	.0	.0	.0	.0	.0	.8	
VAR	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
CALW	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.5	
TOT OBS	0	1	4	12	26	18	8	2	2	2	122	197
TOT PCT	.0	.5	2.0	6.1	13.2	9.1	4.1	1.0	1.0	1.0	61.9	100.0

TABLE 7

CUMULATIVE PCT FREQ OF SIMULTANEOUS OCCURRENCE  
OF CEILING HEIGHT (NH >4/8) AND VSBY (NM)

CEILING (FEET)	VSBY (NM)							
	>10	>5	>2	>1	>1/2	>1/4	>50YD	>0
>4500	2.0	2.0	2.0	2.0	2.0	2.0	2.0	2.0
>4000	3.0	3.0	3.0	3.0	3.0	3.0	3.0	3.0
>3500	6.5	7.0	7.0	7.0	7.0	7.0	7.0	7.0
>3000	13.9	15.9	15.9	15.9	15.9	15.9	15.9	15.9
>2500	24.9	28.9	28.9	28.9	28.9	28.9	28.9	28.9
>2000	29.4	34.8	35.3	35.3	35.3	35.3	35.3	35.3
>1500	30.3	36.8	37.3	37.3	37.3	37.3	37.3	37.3
>1000	30.3	37.3	37.8	37.8	37.8	37.8	37.8	37.8
>500	30.3	37.3	37.8	37.8	37.8	37.8	37.8	37.8
>0	61	75	76	76	76	76	76	76

TOTAL NUMBER OF OBS: 201

PCT FREQ NH <5/8: 62.2

TABLE 7A

PERCENTAGE FREQ OF LOW CLOUDS (EIGHTHS)

	0	1	2	3	4	5	6	7	8	OBSCD	TOTAL OBS
	14.2	15.9	9.0	13.3	9.0	6.9	9.9	9.0	12.9	.0	233

DECEMBER

PERIOD: (PRIMARY) 1907-1969  
(OVER-ALL) 1854-1969

AREA 0013 SPENCER GULF  
35.25 136.8E

TABLE 8

PERCENT FREQ OF WIND DIRECTION VS OCCURRENCE OR NON-OCCURRENCE OF  
PRECIPITATION WITH VARYING VALUES OF VISIBILITY

VSBY (NM)		N	NE	E	SE	S	SW	W	NW	VAR	CALM	PCT	TOTAL OBS
<1/2	PCP	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
	NO PCP	.0	.0	.0	.0	.3	.0	.0	.0	.0	.0	.3	
	TOT %	.0	.0	.0	.0	.3	.0	.0	.0	.0	.0	.3	
1/2<1	PCP	.0	.0	.0	.0	.0	.2	.2	.0	.0	.0	.3	
	NO PCP	.0	.3	.9	.4	.2	.2	.2	.2	.0	.0	2.4	
	TOT %	.0	.3	.9	.4	.2	.3	.4	.2	.0	.0	2.7	
1<2	PCP	.0	.0	.0	.0	.0	.2	.0	.0	.0	.0	.2	
	NO PCP	.3	.2	.2	.0	.3	.2	.1	.0	.0	.3	1.7	
	TOT %	.3	.2	.2	.0	.3	.4	.1	.0	.0	.3	1.9	
2<5	PCP	.0	.0	.0	.0	.2	.0	.0	.0	.0	.0	.2	
	NO PCP	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
	TOT %	.0	.0	.0	.0	.2	.0	.0	.0	.0	.0	.2	
5<10	PCP	.0	.2	.0	.2	1.7	2.5	1.7	.3	.0	.0	6.5	
	NO PCP	1.2	2.1	3.7	9.8	13.1	12.4	5.0	1.1	.0	.3	48.8	
	TOT %	1.2	2.3	3.7	10.1	14.7	14.8	6.7	1.4	.0	.3	55.3	
10+	PCP	.0	.0	.2	.3	.3	.3	.3	.0	.0	.0	1.4	
	NO PCP	.9	2.0	2.9	8.3	9.9	7.5	5.6	.8	.0	.3	38.2	
	TOT %	.9	2.0	3.1	8.6	10.2	7.8	5.9	.8	.0	.3	39.6	
TOT OBS													629
TOT PCT		2.4	4.8	7.9	19.0	26.0	23.4	13.1	2.4	.0	1.0	100.0	

TABLE 9

PERCENT FREQ OF WIND DIRECTION VS WIND SPEED  
WITH VARYING VALUES OF VISIBILITY

VSBY (NM)	SPD KTS	N	NE	E	SE	S	SW	W	NW	VAR	CALM	PCT	TOTAL OBS
<1/2	0-3	.0	.0	.0	.0	.1	.0	.0	.0	.0	.0	.1	
	4-10	.0	.0	.0	.0	.0	.1	.0	.0	.0	.0	.1	
	11-21	.0	.0	.0	.0	.1	.0	.0	.0	.0	.0	.1	
	22+	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
	TOT %	.0	.0	.0	.0	.3	.1	.0	.0	.0	.0	.4	
1/2<1	0-3	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
	4-10	.0	.0	.3	.1	.0	.1	.0	.1	.0	.0	.7	
	11-21	.0	.3	.4	.3	.2	.1	.1	.0	.0	.0	1.3	
	22+	.0	.0	.0	.0	.0	.0	.3	.0	.0	.0	.3	
	TOT %	.0	.3	.7	.3	.2	.3	.3	.1	.0	.0	2.2	
1<2	0-3	.1	.1	.0	.0	.0	.0	.0	.0	.0	.0	.4	
	4-10	.2	.1	.2	.0	.1	.1	.0	.0	.0	.0	.8	
	11-21	.0	.0	.0	.0	.1	.0	.0	.0	.0	.0	.1	
	22+	.0	.0	.0	.0	.0	.2	.1	.0	.0	.0	.3	
	TOT %	.3	.2	.2	.0	.3	.3	.1	.0	.0	.3	1.6	
2<5	0-3	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
	4-10	.0	.0	.0	.0	.1	.0	.0	.0	.0	.0	.1	
	11-21	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
	22+	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
	TOT %	.0	.0	.0	.0	.1	.0	.0	.0	.0	.0	.1	
5<10	0-3	.3	.1	.5	.4	1.1	.4	.3	.1	.0	.4	3.6	
	4-10	.4	1.3	1.9	2.8	5.6	3.7	.9	.0	.0	.0	17.2	
	11-21	.3	.5	.7	3.9	4.8	6.4	2.6	.5	.0	.0	19.7	
	22+	.0	.0	.1	2.1	1.4	2.1	1.8	.0	.0	.0	7.5	
	TOT %	1.0	1.9	3.2	9.1	12.9	12.6	5.6	1.2	.0	.4	47.9	
10+	0-3	.3	.5	.0	.1	.8	.3	.1	.0	.0	.5	2.6	
	4-10	.4	1.6	1.9	4.2	5.1	5.0	2.2	.7	.0	.0	21.1	
	11-21	.2	.5	1.5	6.6	4.7	3.8	2.7	.3	.0	.0	20.2	
	22+	.0	.0	.2	.7	.9	1.2	.9	.0	.0	.0	3.8	
	TOT %	.9	2.6	3.6	11.6	11.3	10.4	5.9	1.0	.0	.5	47.8	
TOT OBS													758
TOT PCT		2.1	4.9	7.8	21.1	25.1	23.7	11.8	2.3	.0	1.2	100.0	

## DECEMBER

PERIOD: (PRIMARY) 1907-1969  
(OVER-ALL) 1854-1969AREA 0013 SPENCER GULF  
35.25 136.8E

TABLE 10

PERCENT FREQUENCY OF CEILING HEIGHTS (FEET, NH >4/8) AND  
OCCURRENCE OF NH <2/8 BY HOUR

HOUR (GMT)	000 149	150 299	300 599	600 999	1000 1999	2000 3499	3500 4999	5000 6499	6500 7999	8000+	TOTAL	NH <5/8 ANY HGT	TOTAL OBS
00003	.0	.0	2.2	2.2	13.0	19.6	2.2	4.3	.0	.0	43.5	56.5	46
06009	.0	2.0	2.0	3.9	9.8	2.0	3.9	.0	.0	2.0	25.5	74.5	51
12015	.0	.0	1.5	8.8	13.2	5.9	2.9	.0	1.5	.0	33.8	66.2	68
18021	.0	.0	1.9	7.4	11.1	7.4	5.0	.0	1.9	1.9	37.0	63.0	54
TOT PCT	.0 .0	1 .5	4 1.8	13 5.9	26 11.9	18 8.2	8 3.7	2 .9	2 .9	2 .9	76 34.7	143 65.3	219 100.0

TABLE 11

PERCENT FREQUENCY VSBY (NM) BY HOUR

HOUR (GMT)	<1/2	1/2<1	1<2	2<5	5<10	10+	TOTAL OBS
00003	.0	3.7	3.1	.0	55.0	38.2	191
06009	.7	.7	3.7	.7	37.0	57.0	135
12015	1.0	2.3	1.0	.0	49.0	46.7	304
18021	.0	1.8	.0	.0	50.9	47.2	163
TOT PCT	4 .5	18 2.3	14 1.8	1 .1	387 48.8	369 46.5	793 100.0

TABLE 12

CUMULATIVE PCT FREQ OF RANGES OF VSBY (NM) AND/OR  
CEILING HGT (FEET, NH >4/8), BY HOUR

HOUR (GMT)	<150 <500YD	<600 <1	<1000 <5	1000+ AND5+	NH <5/8 AND 5+	TOTAL OBS
00003	.0	2.5	5.0	45.0	50.0	40
06009	.0	4.2	8.3	18.8	72.9	48
12015	.0	1.5	10.8	24.6	64.6	65
18021	.0	2.1	10.4	31.3	58.3	48
TOT PCT	0 .0	5 2.5	18 9.0	58 28.9	125 62.2	201 100.0

TABLE 13

PERCENT FREQUENCY OF RELATIVE HUMIDITY BY TEMP

TEMP F	0-29	30-39	40-49	50-59	60-69	70-79	80-89	90-100	TOTAL OBS	PCT FREQ
80/84	.0	.3	.0	.3	.0	.0	.0	.0	2	.5
75/79	.0	.0	.3	.3	.8	.8	.0	.0	8	2.2
70/74	.0	.0	.0	.3	.5	1.3	2.4	.0	17	4.6
65/69	.0	.0	.0	.8	2.4	6.2	5.1	3.8	68	18.3
60/64	.0	.0	.0	1.1	8.6	13.2	11.8	7.5	157	42.2
55/59	.0	.0	.0	.8	7.8	14.2	6.5	2.2	117	31.5
50/54	.0	.0	.0	.0	.0	.5	.0	.5	3	.8
TOTAL	0	1	13	75	135	96	51	372	100.0	
PCT	.0	.5	.3	3.5	20.2	36.3	25.8	13.7		

TABLE 14

PERCENT FREQUENCY OF WIND DIRECTION BY TEMP

N	NE	E	SE	S	SW	W	NW	VAR	CALM
.0	.0	.3	.0	.0	.0	.0	.0	.0	.3
.0	.4	.4	.3	.3	.3	.3	.0	.0	.3
1.3	.5	.8	.4	.8	.1	.5	.1	.0	.0
.2	2.4	3.6	3.2	3.8	3.0	1.7	.4	.0	.0
.4	.2	2.0	8.1	10.9	10.1	8.7	1.3	.0	.5
.0	.3	.4	6.5	10.8	10.3	3.0	.0	.0	.3
.0	.0	.0	.0	.3	.5	.0	.0	.0	.0
1.9	3.8	7.5	18.5	26.8	24.2	14.2	1.8	.0	1.3

TABLE 15

MEANS, EXTREMES AND PERCENTILES OF TEMP (DEG F) BY HOUR

HOUR (GMT)	MAX	99%	95%	50%	5%	1%	MIN	MEAN	TOTAL OBS
00003	78	75	72	63	57	54	50	63.4	349
06009	83	80	76	64	58	56	55	64.5	174
12015	82	77	71	61	56	55	51	61.6	472
18021	75	72	68	60	55	53	52	60.5	217
TOT	83	77	72	61	56	54	50	62.3	1162

TABLE 16

PERCENT FREQUENCY OF RELATIVE HUMIDITY BY HOUR

HOUR (GMT)	0-29	30-59	60-69	70-79	80-89	90-100	MEAN	TOTAL OBS
00003	.0	6.8	17.8	39.7	24.7	11.0	76	73
06009	.0	5.8	34.8	34.8	14.5	10.1	73	69
12015	.0	3.5	17.6	35.9	29.6	13.4	78	142
18021	.0	2.1	15.5	34.0	29.9	18.6	79	97
TOT	0	16	77	137	99	52	77	381

DECEMBER

PERIOD: (PRIMARY) 1907-1969  
(OVER-ALL) 1854-1969

AREA 0013 SPENCER GULF  
35.25 136.8E

TABLE 17

PCT FREQ OF AIR TEMPERATURE (DEG F) AND THE OCCURRENCE OF FOG (WITHOUT PRECIPITATION)  
VS AIR-SEA TEMPERATURE DIFFERENCE (DEG F)

AIR-SEA TMP DIF	49 52	53 56	57 60	61 64	65 68	69 72	73 76	77 80	81 84	TOT	W FOG	WD FOG
11/13	.0	.0	.0	.0	.2	.2	.2	.2	.2	5	.0	.9
9/10	.0	.0	.0	.0	.2	.4	.4	.5	.2	9	.0	1.6
7/8	.0	.0	.0	.4	.5	.5	.5	.5	.0	14	.2	2.3
6	.0	.0	.0	.4	.4	.9	.4	.2	.0	12	.0	2.1
5	.0	.0	.2	.4	1.1	1.1	.5	.0	.0	18	.5	2.7
4	.0	.0	.4	.5	2.1	.9	.5	.0	.0	25	.4	4.1
3	.0	.0	.4	1.1	2.8	1.1	.0	.0	.0	30	.4	5.0
2	.0	.0	.5	2.1	3.2	.2	.0	.0	.0	34	.2	5.9
1	.0	.0	1.1	4.3	1.8	.9	.0	.0	.0	45	.5	7.5
0	.0	.5	3.4	5.0	1.8	.4	.0	.0	.0	62	.0	11.0
-1	.0	.2	5.7	4.8	1.1	.0	.0	.0	.0	66	.4	11.4
-2	.0	.5	5.0	5.5	1.1	.0	.0	.0	.0	68	.5	11.6
-3	.0	.7	7.3	2.7	.5	.0	.0	.0	.0	63	.0	11.2
-4	.0	.9	5.7	2.0	.2	.0	.0	.0	.0	49	.0	8.7
-5	.0	.7	4.6	1.1	.2	.0	.0	.0	.0	37	.5	6.0
-6	.0	.7	1.2	.0	.0	.0	.0	.0	.0	11	.2	1.8
-7/-8	.4	.5	.7	.2	.4	.0	.0	.0	.0	12	.0	2.1
-9/-10	.0	.0	.2	.0	.0	.0	.0	.0	.0	1	.0	.2
-11/-13	.0	.2	.0	.0	.0	.0	.0	.0	.0	1	.0	.2
TOTAL	2	204	170	98	36	14	8	2	21	562	3.7	96.3
PCT	.4	5.0	36.3	30.2	17.4	6.4	2.5	1.4	.4	100.0		

PERIOD: (OVER-ALL) 1963-1969

TABLE 18

PCT FREQ OF WIND SPEED (KTS) AND DIRECTION VERSUS SEA HEIGHTS (FT)

HGT	1-3	4-10	11-21	22-33	34-47	48+	PCT	1-3	4-10	11-21	22-33	34-47	48+	PCT
<1	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
1-2	.0	1.3	.0	.0	.0	.0	1.3	.0	.9	.0	.0	.0	.0	.9
3-4	.0	.0	.7	.0	.0	.0	.7	.0	1.1	.2	.0	.0	.0	1.3
5-6	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
7	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
8-9	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
10-11	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
12	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
13-16	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
17-19	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
20-22	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
23-25	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
26-32	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
33-40	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
41-48	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
49-60	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
61-70	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
71-86	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
87+	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
TOT PCT	.0	1.3	.7	.0	.0	.0	2.0	.0	2.0	.2	.0	.0	.0	2.2

HGT	1-3	4-10	11-21	22-33	34-47	48+	PCT	1-3	4-10	11-21	22-33	34-47	48+	PCT
<1	.0	.6	.0	.0	.0	.0	.6	.0	1.7	.0	.0	.0	.0	1.7
1-2	.0	.7	.0	.0	.0	.0	.7	.0	5.0	.0	.0	.0	.0	5.0
3-4	.0	2.6	.6	.0	.0	.0	3.1	.0	4.4	1.7	.0	.0	.0	6.1
5-6	.0	.0	.6	.0	.0	.0	.6	.0	.0	5.9	.0	.0	.0	5.9
7	.0	.0	.0	.0	.0	.0	.0	.0	.0	.7	.0	.0	.0	.7
8-9	.0	.0	.0	.0	.0	.0	.0	.0	.0	.7	.0	.0	.0	.7
10-11	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.2	.0	.0	.2
12	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
13-16	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
17-19	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
20-22	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
23-25	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
26-32	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
33-40	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
41-48	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
49-60	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
61-70	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
71-86	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
87+	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
TOT PCT	.0	3.9	1.1	.0	.0	.0	5.0	.0	11.1	8.3	1.1	.0	.0	20.6

PERIOD: (OVER-ALL) 1963-1969

DECEMBER

AREA 0013 SPENCER GULF  
35.25 136.8E

TABLE 18 (CONT)

PCT FREQ OF WIND SPEED (KTS) AND DIRECTION VERSUS SEA HEIGHTS (FT)

HGT	S							SW							PCT
	1-3	4-10	11-21	22-33	34-47	48+	PCT	1-3	4-10	11-21	22-33	34-47	48+	PCT	
<1	.0	1.5	.0	.0	.0	.0	1.5	.7	1.5	.0	.0	.0	.0	.0	2.2
1-2	.0	7.6	2.8	.0	.0	.0	10.4	.0	5.2	.9	.0	.0	.0	.0	6.1
3-4	.0	1.5	5.6	1.3	.0	.0	8.3	.2	1.3	3.9	.2	.0	.0	.0	5.6
5-6	.0	1.3	8.0	.0	.0	.0	9.3	.0	.2	.7	.2	.0	.0	.0	1.1
7	.0	.0	.0	.6	.0	.0	.6	.0	.0	.0	.0	.0	.0	.0	.0
8-9	.0	.0	.7	.0	.0	.0	.7	.0	.0	.0	.2	.0	.0	.0	.2
10-11	.0	.0	.0	.6	.0	.0	.6	.0	.0	.0	.2	.0	.0	.0	.2
12	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
13-16	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
17-19	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
20-22	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
23-25	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
26-32	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
33-40	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
41-48	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
49-60	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
61-70	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
71-86	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
87+	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
TOT PCT	.0	11.9	17.0	2.4	.0	.0	31.3	.9	8.1	5.6	.7	.0	.0	.0	15.4

HGT	W							NW							TOTAL PCT
	1-3	4-10	11-21	22-33	34-47	48+	PCT	1-3	4-10	11-21	22-33	34-47	48+	PCT	
<1	.0	1.5	.0	.0	.0	.0	1.5	.0	.0	.0	.0	.0	.0	.0	.0
1-2	.0	2.2	2.2	.0	.0	.0	4.4	.0	.7	.0	.0	.0	.0	.0	.7
3-4	.6	3.1	2.2	.0	.0	.0	5.9	.0	.0	.0	.0	.0	.0	.0	.0
5-6	.0	.0	3.3	.6	.0	.0	3.9	.0	.7	.0	.0	.0	.0	.0	.7
7	.0	.0	.7	.7	.0	.0	1.5	.0	.0	.7	.0	.0	.0	.0	.7
8-9	.0	.0	.0	.6	.0	.0	.6	.0	.0	.0	.0	.0	.0	.0	.0
10-11	.0	.0	.0	.6	.0	.0	.6	.0	.0	.0	.0	.0	.0	.0	.0
12	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
13-16	.0	.0	.0	.7	.0	.0	.7	.0	.0	.0	.0	.0	.0	.0	.0
17-19	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
20-22	.0	.0	.0	.6	.0	.0	.6	.0	.0	.0	.2	.0	.0	.0	.2
23-25	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
26-32	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
33-40	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
41-48	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
49-60	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
61-70	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
71-86	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
87+	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
TOT PCT	.6	6.9	8.5	3.7	.0	.0	19.6	.0	1.5	.7	.2	.0	.0	2.4	98.5

WIND SPEED (KTS) VS SEA HEIGHT (FT)

HGT	0-3	4-10	11-21	22-33	34-47	48+	PCT	TOT DBS
<1	2.9	7.2	.0	.0	.0	.0	10.1	
1-2	.7	23.2	5.8	.0	.0	.0	29.7	
3-4	.7	13.8	14.5	1.4	.0	.0	30.4	
5-6	.0	2.2	18.1	.7	.0	.0	21.0	
7	.0	.0	2.2	1.4	.0	.0	3.6	
8-9	.0	.0	.7	1.4	.0	.0	2.2	
10-11	.0	.0	.0	1.4	.0	.0	1.4	
12	.0	.0	.0	.0	.0	.0	.0	
13-16	.0	.0	.0	.7	.0	.0	.7	
17-19	.0	.0	.0	.0	.0	.0	.0	
20-22	.0	.0	.0	.0	.7	.0	.7	
23-25	.0	.0	.0	.0	.0	.0	.0	
26-32	.0	.0	.0	.0	.0	.0	.0	
33-40	.0	.0	.0	.0	.0	.0	.0	
41-48	.0	.0	.0	.0	.0	.0	.0	
49-60	.0	.0	.0	.0	.0	.0	.0	
61-70	.0	.0	.0	.0	.0	.0	.0	
71-86	.0	.0	.0	.0	.0	.0	.0	
87+	.0	.0	.0	.0	.0	.0	.0	
TOT PCT	4.3	46.4	41.3	8.0	.0	.0	100.0	138

PERIOD: (OVER-ALL) 1949-1969

TABLE 19

PERCENT FREQUENCY OF WAVE HEIGHT (FT) VS WAVE PERIOD (SECONDS)

PERIOD (SEC)	<1	1-2	3-4	5-6	7	8-9	10-11	12	13-16	17-19	20-22	23-25	26-32	33-40	41-48	49-60	61-70	71-86	87+	TOTAL	MEAN HGT
<6	4.2	8.5	12.7	5.3	.0	1.1	1.1	.5	.5	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	63	3
6-7	.0	1.6	10.1	11.6	7.4	2.1	.5	1.1	.5	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	66	5
8-9	.0	.5	1.6	2.6	5.8	3.2	.5	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	27	6
10-11	.0	.0	.0	.5	4.2	2.6	.5	.5	.5	.0	.5	.0	.0	.0	.0	.0	.0	.0	.0	18	9
12-13	.0	.0	.0	.5	.0	.5	.0	.5	.5	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	4	9
>13	.0	.0	.0	.0	.0	.0	.5	.0	.5	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	2	12
INDET	2.6	.5	.5	.0	.0	.0	1.1	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	9	3
TOTAL	13	21	48	38	33	18	8	5	4	0	1	0	0	0	0	0	0	0	0	169	5
PCT	6.9	11.1	25.4	20.1	17.5	9.5	4.2	2.6	2.1	.0	.5	.0	.0	.0	.0	.0	.0	.0	.0	100.0	



PERIOD: (PRIMARY) 1907-1971  
(OVER-ALL) 1854-1971

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TABLE 1

## PERCENT FREQUENCY OF WEATHER OCCURRENCE BY WIND DIRECTION

PRECIPITATION TYPE										OTHER WEATHER PHENOMENA						
WIND DIR	RAIN	RAIN SHWR	DRZL	FRZG PCPN	SNOW	OTHER FRZN PCPN	HAIL	PCPN AT OB TIME	PCPN PAST HOUR	THOR LTNG	FGG WD PCPN	FGG WD PCPN PAST HR	SMOKE HAZE	SPRAY BLWG DUST	NO SIG WEA	
N	2.7	2.7	1.1	.0	.0	.0	.0	6.5	1.3	1.9	3.4	.0	3.5	.0	83.8	
NE	2.9	1.7	.9	.0	.0	.0	.0	5.5	.3	2.2	2.9	.0	1.8	.0	87.7	
E	1.9	1.6	1.7	.0	.0	.0	.0	5.1	1.1	1.0	2.7	.0	1.2	.0	88.9	
SE	3.3	5.4	1.5	.0	.0	.0	.0	10.2	.8	.8	1.5	.0	.5	.0	86.4	
S	2.3	8.3	1.1	.0	.0	.0	.0	11.8	1.3	1.4	2.3	.0	.5	.0	82.8	
SW	2.7	10.6	1.2	.0	.0	.0	.1	14.6	2.2	.6	1.5	.0	.7	.0	80.6	
W	4.5	10.1	1.6	.0	.0	.0	.1	16.3	2.8	1.3	2.2	.1	.6	.0	77.3	
NW	5.1	7.0	1.0	.0	.0	.0	.4	13.4	1.5	2.8	2.0	.0	1.0	.0	80.0	
VAR	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
CALM	2.2	.0	.7	.0	.0	.0	.0	2.9	.0	1.7	2.1	.0	3.3	.0	89.9	
TOT PCT	3.0	6.0	1.1	.0	.0	.0	*	10.2	1.5	1.5	2.1	*	.9	.0	84.1	
TOT OBS:	7881															

TABLE 2

## PERCENT FREQUENCY OF WEATHER OCCURRENCE BY HOUR

HOUR (GMT)	PRECIPITATION TYPE							OTHER WEATHER PHENOMENA							
	RAIN	RAIN SHWR	DRZL	FRZG PCPN	SNOW	OTHER FRZN PCPN	HAIL	PCPN AT OB TIME	PCPN PAST HOUR	THDR LTNG	FGG WD PCPN	FGG WD PCPN PAST HR	SMOKE HAZE	SPRAY BLWG DUST BLWG SNOW	NO SIG WEA
0000	2.6	6.2	.8	.0	.0	.0	.0	9.6	1.2	.3	3.0	.0	1.2	.0	84.8
0600	1.9	4.1	.9	.0	.0	.0	.1	7.0	2.4	.0	1.9	.0	1.8	.0	86.9
1200	3.7	6.2	1.2	.0	.0	.0	*	11.1	1.1	2.1	2.4	.0	.9	.0	83.0
1800	3.2	6.1	1.5	.0	.0	.0	.1	11.0	1.6	2.8	1.5	.0	.6	.0	83.2
TOT PCT	3.0	5.8	1.1	.0	.0	.0	*	10.0	1.5	1.4	2.3	*	1.1	.0	84.1
TOT OBS:	8277														

TABLE 3

## PERCENTAGE FREQUENCY OF WIND DIRECTION BY SPEED AND BY HOUR

WIND DIR	WIND SPEED (KNOTS)							TOTAL OBS	PCT FREQ	MEAN SPD	HOUR (GMT)							
	0-3	4-10	11-21	22-33	34-47	48+					00	03	06	09	12	15	18	21
N	.8	4.3	3.4	.7	.1	*		9.3	10.0		11.9	12.0	10.1	11.7	6.5	7.4	9.3	12.0
NE	.9	4.7	2.4	.3	*	*		8.4	9.2		10.2	9.3	7.8	8.4	6.5	8.3	8.8	7.7
E	1.0	4.7	2.6	.3	*	.0		8.7	9.5		9.8	9.4	7.2	9.0	6.8	9.7	9.7	8.9
SE	.8	7.0	5.9	1.0	.1	.0		14.7	11.0		13.0	12.9	12.6	11.0	16.2	16.6	16.2	17.9
S	1.1	7.8	6.4	1.2	.1	.0		16.5	11.5		14.3	14.2	17.7	24.0	19.7	17.2	15.2	9.5
SW	.9	7.0	7.6	2.3	.5	*		18.2	13.6		16.8	16.6	20.5	20.8	20.3	17.4	16.9	18.7
W	.6	4.4	5.2	2.2	.6	.1		13.1	14.9		12.7	12.3	12.9	10.0	13.6	13.2	13.4	14.1
NW	.4	3.3	3.5	1.1	.2	*		8.6	12.7		9.6	10.6	9.2	4.6	7.5	7.8	7.6	10.0
VAR	.0	.0	.0	.0	.0	.0		.0	.0		.0	.0	.0	.0	.0	.0	.0	.0
CALM	2.4							2.4	.0		1.7	2.7	2.0	.4	2.9	2.2	2.4	1.3
TOT OBS							14874		11.9		2055	2266	2187	116	3063	2282	2744	111
TOT PCT	9.0	43.1	37.0	9.1	1.7	.2		100.0			100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0

TABLE 3A

WIND DIR	WIND SPEED (KNOTS)					TOTAL OBS	PCT FREQ	MEAN SPD	HOUR (GMT)			
	0-6	7-16	17-27	28-40	41+				00	03	06	12
N	2.5	4.8	1.6	.3	*		9.3	10.0	11.9	10.1	6.9	9.4
NE	3.1	4.1	1.1	.1	*		8.4	9.2	9.7	7.8	7.3	8.8
E	3.1	4.5	1.0	.1	*		8.7	9.5	9.6	7.2	8.0	9.6
SE	3.5	8.1	2.8	.3	*		14.7	11.0	12.9	12.6	16.3	16.2
S	4.0	8.9	3.3	.4	*		16.5	11.5	14.3	18.0	18.6	18.0
SW	3.5	8.8	4.7	1.2	.1		18.2	13.6	16.8	20.5	19.1	17.0
W	2.3	5.5	3.9	1.2	.2		13.1	14.9	12.6	12.8	13.4	13.5
NW	1.8	4.1	2.2	.5	.1		8.6	12.7	10.1	9.0	7.6	7.8
VAR	.0	.0	.0	.0	.0		.0	.0	.0	.0	.0	.0
CALM	2.4						2.4	.0	2.2	1.9	2.6	2.8
TOT OBS						14824		11.9	4321	2303	5345	2855
TOT PCT	26.1	48.7	20.5	4.1	.5		100.0		100.0	100.0	100.0	100.0

## ANNUAL

PERIOD: (PRIMARY) 1907-1971  
(OVER-ALL) 1854-1971AREA 0013 SPENCER GULF  
35.25 136.9E

TABLE 4

PERCENTAGE FREQUENCY OF WIND SPEED BY HOUR (GMT)

HOUR	CALM	WIND SPEED (KNOTS)						PCT FREQ	TOTAL OBS
		1-3	4-10	11-21	22-33	34-47	48+		
0000	2.2	7.5	42.9	35.0	10.1	2.0	.2	12.1	100.0
0600	1.9	7.6	41.7	38.0	9.1	1.4	.3	11.9	100.0
1200	2.6	5.8	43.4	38.2	8.5	1.3	.1	11.8	100.0
1800	2.8	5.6	43.7	37.2	8.7	1.9	.1	11.9	100.0
TOT								11.9	14824
PCT	2.4	6.6	43.1	37.0	9.1	1.7	.2	100.0	

TABLE 5

PCT FREQ OF TOTAL CLOUD AMOUNT (EIGHTHS)  
BY WIND DIRECTION

WIND DIR	0-2	3-4	5-7	8 & OBS	TOTAL CLOUD COVER
N	2.8	1.4	2.2	2.1	4.4
NE	4.1	1.0	1.6	1.5	3.2
E	3.6	1.3	1.7	1.3	3.8
SE	6.8	1.9	3.7	2.4	3.9
S	5.0	2.9	5.4	3.4	4.6
SW	4.1	4.4	6.6	2.6	4.6
W	3.2	3.5	6.1	2.3	4.7
NW	2.6	1.5	3.0	1.8	4.7
VAR	.0	.0	.0	.0	.0
CALM	1.3	.2	.2	.2	2.1
TOT OBS					2718
TOT PCT	33.6	18.1	30.6	17.6	100.0

TABLE 6

PERCENTAGE FREQUENCY OF CEILING HEIGHTS (FT, NH >4/8)  
AND OCCURRENCE OF NH <5/8 BY WIND DIRECTION

	000	150	300	600	1000	2000	3500	5000	6500	8000+	NH <5/8	TOTAL
	149	299	599	999	1999	3499	4999	6499	7999		ANY HGT	OBS
N	.0	.0	.1	.5	1.2	.5	.3	.1	.1	.2	5.6	
NE	.0	.0	.0	.3	.9	.8	.3	*	.0	.1	6.1	
E	.0	*	*	.2	.7	.7	.2	*	.0	.1	5.9	
SE	.0	*	.1	.9	1.9	1.4	.6	.1	*	*	9.7	
S	.0	*	.1	1.0	3.3	1.5	.7	.3	.1	.1	9.6	
SW	.0	*	.2	1.3	3.1	1.3	.8	.2	.1	.1	10.7	
W	*	.0	.2	1.1	2.8	1.3	.4	.2	.1	.1	8.8	
NW	*	.0	*	.4	1.6	.8	.4	*	*	.2	5.4	
VAR	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
CALM	.0	.0	.0	.1	.1	.1	.0	.0	.0	.0	1.7	
TOT OBS	*	.1	.8	5.7	15.6	8.3	3.7	1.0	.4	.9	63.6	2718
TOT PCT												100.0

TABLE 7

CUMULATIVE PCT FREQ OF SIMULTANEOUS OCCURRENCE  
OF CEILING HEIGHT (NH >4/8) AND VSBY (NM)

CEILING (FEET)	VSBY (NM)							
	>10	>5	>2	>1	>1/2	>1/4	>50YD	>0
>A500	1.2	1.3	1.3	1.3	1.3	1.3	1.3	1.3
>5000	2.1	2.3	2.3	2.3	2.3	2.3	2.3	2.3
>3500	5.6	6.0	6.1	6.1	6.1	6.1	6.1	6.1
>2000	12.7	13.9	14.1	14.1	14.1	14.1	14.1	14.1
>1000	25.4	29.2	29.5	29.5	29.5	29.5	29.5	29.5
>500	29.3	34.4	35.1	35.1	35.1	35.1	35.1	35.1
>200	29.6	35.0	35.9	35.9	35.9	35.9	35.9	35.9
>150	29.6	35.1	36.0	36.0	36.0	36.0	36.0	36.0
>0	29.6	35.1	36.0	36.1	36.1	36.1	36.1	36.1

TOTAL NUMBER OF OBS: 2788

PCT FREQ NH &lt;5/8: 63.9

TABLE 7A

PERCENTAGE FREQ OF LOW CLOUDS (EIGHTHS)

	0	1	2	3	4	5	6	7	8	TOTAL
										OBS
	17.8	14.0	10.9	11.4	8.6	7.1	8.1	8.9	13.2	3150

PERIOD: (PRIMARY) 1907-1971  
(OVER-ALL) 1854-1971

ANNUAL

AREA 0013 SPENCER GULF  
35.2S 136.9E

TABLE 8

PERCENT FREQ OF WIND DIRECTION VS OCCURRENCE OR NON-OCCURRENCE OF  
PRECIPITATION WITH VARYING VALUES OF VISIBILITY

VISBY (NM)		N	NE	E	SE	S	SW	W	NW	VAR	CALM	PCT	TOTAL OBS
<1/2	PCP	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
	NO PCP	*	*	*	*	*	*	*	*	.0	.0	.1	
	TOT %	*	*	*	*	*	*	*	*	.0	.0	.1	
1/2<1	PCP	*	*	.0	.1	*	*	*	*	.0	.0	.3	
	NO PCP	.2	.2	.2	.3	.3	.2	.2	.1	.0	.0	1.6	
	TOT %	.2	.2	.2	.4	.3	.2	.2	.1	.0	.0	1.9	
1<2	PCP	.0	*	*	*	*	*	*	*	.0	.0	.2	
	NO PCP	.1	.1	.1	.1	.1	.1	*	.1	.0	*	.7	
	TOT %	.1	.2	.1	.1	.1	.1	.1	.1	.0	*	.8	
2<5	PCP	*	*	*	*	*	.1	.1	*	.0	.0	.3	
	NO PCP	.1	*	*	*	.1	.1	.1	.1	.0	.0	.5	
	TOT %	.1	*	*	.1	.1	.2	.1	.1	.0	.0	.7	
5<10	PCP	.6	.4	.3	.8	1.2	2.0	1.6	.8	.0	*	7.6	
	NO PCP	3.8	3.8	4.2	7.3	7.3	8.0	4.7	3.3	.0	.3	42.7	
	TOT %	4.4	4.3	4.5	8.1	8.5	9.9	6.3	4.1	.0	.3	50.4	
10+	PCP	.1	.1	.1	.2	.3	.5	.4	.2	.0	*	1.9	
	NO PCP	4.4	4.1	3.9	5.6	7.4	7.4	5.7	3.8	.0	1.0	44.2	
	TOT %	4.5	4.1	4.0	5.8	7.7	7.8	6.1	4.0	.0	1.0	46.1	
TOT OBS													7880
TOT PCT													9.3 8.8 8.9 15.5 16.7 18.3 12.8 8.4 .0 1.3 100.0

TABLE 9

PERCENT FREQ OF WIND DIRECTION VS WIND SPEED  
WITH VARYING VALUES OF VISIBILITY

VISBY (NM)	SPD KTS	N	NE	E	SE	S	SW	W	NW	VAR	CALM	PCT	TOTAL OBS
<1/2	0-3	.0	.0	.0	.0	*	.0	.0	.0	.0	.0	*	
	4-10	*	*	.0	*	*	*	.0	*	.0	.0	.1	
	11-21	.0	.0	*	*	*	*	*	*	.0	.0	*	
	22+	.0	.0	.0	*	.0	*	.0	.0	.0	.0	*	
	TOT %	*	*	*	*	*	*	*	*	.0	.0	.2	
1/2<1	0-3	*	*	*	*	.0	*	*	*	.0	.0	.1	
	4-10	.1	*	.1	.1	.1	*	.1	*	.0	.0	.5	
	11-21	.1	.1	.1	.1	.2	.1	*	*	.0	.0	.7	
	22+	*	*	.0	.1	*	*	.1	*	.0	.0	.2	
	TOT %	.2	.2	.2	.3	.3	.2	.2	.1	.0	.0	1.6	
1<2	0-3	*	*	.0	.0	.0	.0	.0	.0	.0	*	.1	
	4-10	*	.1	*	*	*	*	*	*	.0	.0	.3	
	11-21	*	*	*	.1	.1	*	*	*	.0	.0	.3	
	22+	.0	.0	*	*	.0	.1	*	.0	.0	.0	.1	
	TOT %	.1	.1	.1	.1	.1	.1	*	.1	.0	*	.8	
2<5	0-3	*	.0	.0	.0	.0	.0	.0	.0	.0	*	*	
	4-10	*	*	*	*	.1	.1	*	*	.0	.0	.3	
	11-21	*	*	*	.1	.1	.1	.1	.1	.0	.0	.4	
	22+	*	*	*	*	*	.1	.1	*	.0	.0	.3	
	TOT %	.1	.1	.1	.1	.1	.2	.2	.0	*	.0	1.0	
5<10	0-3	.3	.3	.4	.3	.5	.4	.2	.1	.0	.3	2.9	
	4-10	1.6	2.0	2.0	3.0	2.9	2.9	1.5	1.3	.0	.0	17.2	
	11-21	1.4	1.2	1.3	3.2	3.2	4.1	2.6	1.5	.0	.0	18.4	
	22+	.5	.1	.2	.6	.7	1.4	1.3	.7	.0	.0	5.4	
	TOT %	3.8	3.7	3.8	7.1	7.4	8.7	5.6	3.6	.0	.3	44.0	
10+	0-3	.4	.4	.4	.5	.5	.4	.4	.3	.0	1.4	4.6	
	4-10	2.1	2.5	2.6	4.2	4.7	4.0	2.3	1.6	.0	.0	24.1	
	11-21	2.0	1.4	1.3	3.0	3.3	3.7	2.9	1.9	.0	.0	19.6	
	22+	.3	.1	.2	.5	.6	1.1	1.1	.5	.0	.0	4.3	
	TOT %	4.8	4.5	4.4	8.1	9.1	9.2	6.7	4.4	.0	1.4	52.6	
TOT OBS													9301
TOT PCT													9.0 8.6 8.6 15.7 17.0 18.4 12.7 8.3 .0 1.8 100.0

PERIOD: (PRIMARY) 1907-1971  
(OVER-ALL) 1854-1971

ANNUAL

AREA 0013 SPENCER GULF  
35.25 136.9E

TABLE 10

PERCENT FREQUENCY OF CEILING HEIGHTS (FEET, NH >4/8) AND  
OCCURRENCE OF NH <3/8 BY HOUR

HOURL (GMT)	000 149	150 299	300 599	600 999	1000 1999	2000 3499	3500 4999	5000 6499	6500 7999	8000+	TOTAL	NH <4/8 ANY HGT	TOTAL OBS
00003	.0	.0	1.3	5.7	15.7	9.8	4.1	1.8	.0	1.3	29.6	60.4	583
06009	.0	.6	.6	4.2	12.5	6.6	5.0	.6	.4	.6	31.2	68.8	658
12015	.2	.0	.4	6.2	13.5	6.8	2.5	.9	.5	.9	32.0	68.0	951
18021	.0	.0	.7	4.7	15.9	7.8	3.4	.6	.4	.5	33.9	66.1	790
TOT PCT	.1	.1	.7	5.2	14.5	7.6	3.6	.9	.4	.8	33.8	66.2	2982 100.0

TABLE 11

PERCENT FREQUENCY VSBY (NM) BY HOUR

HOURL (GMT)	<1/2	1/2<1	1<2	2<5	5<10	10+	TOTAL OBS
00003	.2	2.6	1.1	.7	50.6	44.9	2282
06009	.1	1.5	1.4	1.2	38.9	56.8	1665
12015	.2	1.4	.7	1.0	45.9	50.8	3683
18021	.3	.9	.5	1.2	40.0	57.1	2072
TOT PCT	.2	1.6	.9	1.0	44.6	51.8	9702 100.0

TABLE 12

CUMULATIVE PCT FREQ OF RANGES OF VSBY (NM) AND/OR  
CEILING HGT (FEET, NH >4/8), BY HOUR

HOURL (GMT)	<150 <5000	<600 <1	<1000 <5	1000+ AND 5+	NH <5/8 AND 5+	TOTAL OBS
00003	.0	1.6	7.7	35.0	57.3	545
06009	.0	1.3	6.7	26.1	67.2	619
12015	.2	.7	7.6	26.5	65.9	891
18021	.1	.9	6.6	30.5	62.9	733
TOT PCT	.1	1.0	7.1	29.2	63.8	2788 100.0

TABLE 13

PERCENT FREQUENCY OF RELATIVE HUMIDITY BY TEMP

TEMP F	0-29	30-39	40-49	50-59	60-69	70-79	80-89	90-100	TOTAL OBS	PCT FREQ
60/84	*	*	*	*	.1	.1	.0	.0	.2	.2
75/79	.0	.0	.1	.3	.2	.3	*	.0	1.0	.1
70/74	.0	.0	.1	.3	1.1	1.3	.9	.2	3.9	.1
65/69	.0	.1	.1	.6	2.1	3.6	4.5	2.3	13.4	.4
60/64	.0	.0	.1	.9	6.7	11.5	10.5	3.7	33.4	.7
55/59	.0	.0	.1	1.4	6.0	13.8	12.2	3.6	37.2	.6
50/54	.0	.0	*	.8	2.7	2.8	3.6	1.0	10.6	.1
45/49	.0	.0	.0	.0	.0	.1	.1	.1	.3	.0
TOTAL PCT	*	.1	.6	4.1	19.0	33.4	31.9	10.9	45.4	100.0

TABLE 14

PERCENT FREQUENCY OF WIND DIRECTION BY TEMP

N	NE	E	SE	S	SW	W	NW	VAR	CALM
*	*	*	*	.1	.0	.0	*	.0	.1
.2	.2	.1	.1	.1	.1	.1	*	.0	.1
.5	.7	.5	.6	.6	.4	.2	.2	.0	.1
1.0	1.3	1.5	2.9	2.1	2.0	1.3	.9	.0	.4
3.0	2.2	3.2	6.2	6.5	5.4	3.9	2.4	.0	.7
3.7	2.9	2.1	3.7	5.4	7.9	6.7	4.2	.0	.6
.6	.8	.6	1.1	2.3	3.0	1.7	.5	.0	.1
.0	*	.0	.1	*	.1	*	*	.0	.0
9.1	8.1	8.1	14.7	17.1	18.8	13.9	8.3	.0	2.0

TABLE 15

MEANS, EXTREMES AND PERCENTILES OF TEMP (DEG F) BY HOUR

HOURL (GMT)	MAX	99%	95%	50%	5%	1%	MIN	MEAN	TOTAL OBS
00003	84	72	68	61	55	53	46	61.7	4197
06009	86	73	70	62	56	54	48	62.2	2200
12015	84	70	66	59	55	53	45	60.0	5381
18021	82	68	65	59	54	52	46	58.9	2905
TOT	86	71	67	60	55	53	45	60.4	14683

TABLE 16

PERCENT FREQUENCY OF RELATIVE HUMIDITY BY HOUR

HOURL (GMT)	0-29	30-39	40-49	50-59	60-69	70-79	80-89	90-100	MEAN	TOTAL OBS
00003	.0	7.0	21.1	32.7	28.6	10.6	76	1011		
06009	.1	6.7	26.3	34.6	23.9	8.4	74	887		
12015	.1	3.5	16.6	34.6	34.6	10.6	78	1702		
18021	.0	3.2	14.5	31.0	37.2	14.0	79	1151		
TOT	2	231	898	1583	1513	524	77	4751		

PERIOD: (PRIMARY) 1907-1971  
(OVER-ALL) 1854-1971

ANNUAL

AREA 0013 SPENCER GULF  
35.25 136.9E

TABLE 17

PCT FRQ OF AIR TEMPERATURE (DEG F) AND THE OCCURRENCE OF FOG (WITHOUT PRECIPITATION)  
VS AIR-SEA TEMPERATURE DIFFERENCE (DEG F)

AIR-SEA TMP DIF	45 48	49 52	53 56	57 60	61 64	65 68	69 72	73 76	77 80	81 84	85 88	TOT	N FOG	WD FOG
14/16	.0	.0	.0	.0	.0	.0	*	*	*	*	*	7	.0	.1
11/13	.0	.0	.0	.0	*	.1	.1	.1	.1	.1	.0	36	*	.5
9/10	.0	.0	.0	.0	.0	.2	.2	.2	.2	.1	.0	63	.1	.8
7/8	.0	.0	*	*	.3	.4	.4	.3	.2	.1	.0	128	.1	1.7
6	.0	.0	.0	.1	.3	.4	.3	.2	.1	*	.0	105	.1	1.4
5	.0	*	.1	.2	.7	.5	.6	.2	.1	.0	.0	161	.1	2.2
4	.0	.0	*	.5	.8	.7	.6	.3	*	.0	.0	211	.1	2.9
3	.0	.0	.1	.7	1.4	1.0	.7	.1	*	*	.0	293	.1	4.0
2	.0	*	.3	1.9	1.8	1.7	.7	.2	*	.0	.0	469	.2	6.5
1	.0	*	.6	3.1	2.6	1.7	.5	*	.0	.0	.0	605	.2	8.3
0	.0	.2	2.2	5.0	4.1	1.9	.5	*	.0	.0	.0	976	.3	13.6
-1	.0	.1	3.1	5.0	3.6	1.3	.2	*	.0	.0	.0	930	.3	13.0
-2	*	.4	3.9	4.1	3.4	1.2	.1	*	.0	.0	.0	917	.4	12.6
-3	.0	.3	3.7	4.0	2.3	.4	*	*	.0	.0	.0	751	.2	10.5
-4	.0	.6	2.8	2.8	1.8	.3	.1	.0	.0	.0	.0	589	.1	8.2
-5	*	.6	1.8	1.7	.9	.2	*	.0	.0	.0	.0	367	.1	5.1
-6	*	.5	.9	.8	.4	.1	.0	.0	.0	.0	.0	195	*	2.7
-7/-8	.1	.6	.8	.8	.2	.1	.0	.0	.0	.0	.0	189	*	2.6
-9/-10	.1	.2	.2	.1	*	.0	.0	.0	.0	.0	.0	43	*	.5
-11/-13	.0	.1	.1	.1	.0	*	.0	.0	.0	.0	.0	17	*	.2
-14/-16	.0	*	*	.0	.0	.0	.0	.0	.0	.0	.0	6	.0	.1
TOTAL												7058		
PCT	.2	3.7	20.6	30.9	24.5	12.2	5.1	1.8	.8	.3	*	100.0	2.4	97.6

PERIOD: (OVER-ALL) 1963-1971

TABLE 18

PCT FRQ OF WIND SPEED (KTS) AND DIRECTION VERSUS SEA HEIGHTS (FT)

HGT	1-3	4-10	11-21	22-33	34-47	48+	PCT	HGT	1-3	4-10	11-21	22-33	34-47	48+	PCT
<1	.3	.5	.0	.0	.0	.0	.8	<1	.3	.8	.0	.0	.0	.0	1.3
1-2	.2	1.9	.8	.0	.0	.0	2.8	1-2	.1	1.8	.3	.0	.0	.0	2.2
3-4	.0	1.2	2.0	.0	.0	.0	3.3	3-4	.0	1.1	1.0	*	.0	.0	2.1
5-6	.0	.2	1.4	.1	.0	.0	1.7	5-6	.0	.2	.9	.0	.0	.0	1.1
7	.0	.0	.4	.1	.0	.0	.5	7	.1	.0	.3	.1	.0	.0	.4
8-9	.0	.0	.1	.2	.1	.0	.3	8-9	.0	.0	.1	.1	.0	.0	*
10-11	.0	.0	.0	.1	.0	.0	.1	10-11	.0	.0	.0	.0	.0	.0	.0
12	.0	.0	.0	*	.0	.0	*	12	.0	.0	.0	.0	.0	.0	.0
13-16	.0	.0	.0	*	.0	.0	*	13-16	.0	.0	.0	.0	.0	.1	.1
17-19	.0	.0	.0	*	.0	.0	*	17-19	.0	.0	.0	.0	.0	.0	.0
20-22	.0	.0	.0	.0	.0	.0	.0	20-22	.0	.0	.0	.0	.0	.0	.0
23-25	.0	.0	.0	.0	.0	.0	.0	23-25	.0	.0	.0	.0	.0	.0	.0
26-32	.0	.0	.0	.0	.0	.0	.0	26-32	.0	.0	.0	.0	.0	.0	.0
33-40	.0	.0	.0	.0	.0	.0	.0	33-40	.0	.0	.0	.0	.0	.0	.0
41-48	.0	.0	.0	.0	.0	.0	.0	41-48	.0	.0	.0	.0	.0	.0	.0
49-60	.0	.0	.0	.0	.0	.0	.0	49-60	.0	.0	.0	.0	.0	.0	.0
61-70	.0	.0	.0	.0	.0	.0	.0	61-70	.0	.0	.0	.0	.0	.0	.0
71-86	.0	.0	.0	.0	.0	.0	.0	71-86	.0	.0	.0	.0	.0	.0	.0
87+	.0	.0	.0	.0	.0	.0	.0	87+	.0	.0	.0	.0	.0	.0	.0
TOT PCT	.4	3.8	4.7	.6	.1	.0	9.6	TOT PCT	.6	3.9	2.6	.2	.0	.1	7.3

HGT	1-3	4-10	11-21	22-33	34-47	48+	PCT	HGT	1-3	4-10	11-21	22-33	34-47	48+	PCT
<1	.2	1.0	.0	.0	.0	.0	1.3	<1	.3	1.2	.0	.0	.0	.0	1.5
1-2	*	2.3	.3	.0	.0	.0	2.7	1-2	*	3.2	.8	.0	.0	.0	4.0
3-4	.0	1.2	1.3	*	.0	.0	2.6	3-4	.0	2.3	2.3	.2	.0	.0	4.8
5-6	.0	.1	.6	.0	.0	.0	.8	5-6	.0	.1	2.1	.4	.0	.0	2.6
7	.0	.0	.1	.0	.0	.0	.1	7	.0	.0	.5	.1	.0	.0	.6
8-9	.0	.0	*	.0	.0	.0	*	8-9	.0	.0	.2	.2	.0	.0	.4
10-11	.0	.0	.0	.1	.0	.0	.1	10-11	.0	.0	*	.3	.0	.0	.3
12	.0	.0	.0	.0	.0	.0	.0	12	.0	.0	.0	.0	.0	.0	.0
13-16	.0	.0	.0	.1	.0	.0	.1	13-16	.0	.0	.0	.0	.0	.0	.0
17-19	.0	.0	.0	.0	.0	.0	.0	17-19	.0	.0	.0	.0	.0	.0	.0
20-22	.0	.0	.0	.0	.0	.0	.0	20-22	.0	.0	.0	.0	.0	.0	.0
23-25	.0	.0	.0	.0	.0	.0	.0	23-25	.0	.0	.0	.0	.0	.0	.0
26-32	.0	.0	.0	.0	.0	.0	.0	26-32	.0	.0	.0	.0	.0	.0	.0
33-40	.0	.0	.0	.0	.0	.0	.0	33-40	.0	.0	.0	.0	.0	.0	.0
41-48	.0	.0	.0	.0	.0	.0	.0	41-48	.0	.0	.0	.0	.0	.0	.0
49-60	.0	.0	.0	.0	.0	.0	.0	49-60	.0	.0	.0	.0	.0	.0	.0
61-70	.0	.0	.0	.0	.0	.0	.0	61-70	.0	.0	.0	.0	.0	.0	.0
71-86	.0	.0	.0	.0	.0	.0	.0	71-86	.0	.0	.0	.0	.0	.0	.0
87+	.0	.0	.0	.0	.0	.0	.0	87+	.0	.0	.0	.0	.0	.0	.0
TOT PCT	.3	4.7	2.5	.2	.0	.0	7.7	TOT PCT	.3	6.8	5.9	1.2	.0	.0	14.2



PERIOD: (OVER-ALL) 1963-1971

ANNUAL

AREA 0013 SPENCER GULF  
35.25 136.9E

TABLE 18 (CONT)

PCT FREQ OF WIND SPEED (KTS) AND DIRECTION VERSUS SEA HEIGHTS (FT)

HGT	S							PCT	SW							PCT
	1-3	4-10	11-21	22-33	34-47	48+			1-3	4-10	11-21	22-33	34-47	48+		
<1	.3	1.3	.0	.0	.0	.0		1.6	.4	.9	.0	.0	.0	.0		1.3
1-2	.1	4.2	1.1	.0	.0	.0		5.4	.0	3.0	.9	.0	.0	.0		4.5
3-4	.0	2.0	2.9	.3	.0	.0		5.2	.1	1.8	3.4	.2	.0	.0		5.5
5-6	.0	.3	2.9	.5	.0	.0		3.8	.0	.3	2.1	.7	.0	.0		3.1
7	.0	.0	.5	.1	.0	.0		.6	.0	.0	.9	.6	.1	.0		1.5
8-9	.0	.0	.2	.2	.1	.0		.4	.0	.0	.2	.2	.1	.0		.5
10-11	.0	.0	.0	.0	.0	.0		.1	.0	.0	.2	.2	.0	.0		.2
12	.0	.0	.0	.1	.0	.0		.1	.0	.0	.0	.1	.0	.0		.1
13-16	.0	.0	.0	.0	.0	.0		.0	.0	.0	.0	.0	.0	.0		.0
17-19	.0	.0	.0	.0	.0	.0		.0	.0	.0	.0	.0	.1	.0		.1
20-22	.0	.0	.0	.0	.0	.0		.0	.0	.0	.0	.0	.0	.0		.0
23-25	.0	.0	.0	.0	.0	.0		.0	.0	.0	.0	.0	.0	.0		.0
26-32	.0	.0	.0	.0	.0	.0		.0	.0	.0	.0	.0	.0	.0		.0
33-40	.0	.0	.0	.0	.0	.0		.0	.0	.0	.0	.0	.0	.0		.0
41-48	.0	.0	.0	.0	.0	.0		.0	.0	.0	.0	.0	.0	.0		.0
49-60	.0	.0	.0	.0	.0	.0		.0	.0	.0	.0	.0	.0	.0		.0
61-70	.0	.0	.0	.0	.0	.0		.0	.0	.0	.0	.0	.0	.0		.0
71-86	.0	.0	.0	.0	.0	.0		.0	.0	.0	.0	.0	.0	.0		.0
87+	.0	.0	.0	.0	.0	.0		.0	.0	.0	.0	.0	.0	.0		.0
TOT PCT	.4	7.8	7.6	1.3	.1	.0		17.1	.5	6.7	7.6	1.9	.3	.0		17.0

HGT	W							PCT	NW							PCT	TOTAL PCT
	1-3	4-10	11-21	22-33	34-47	48+			1-3	4-10	11-21	22-33	34-47	48+			
<1	.2	.8	.0	.0	.0	.0		.8	.1	.0	.0	.0	.0	.0		.6	
1-2	.0	2.7	.8	.0	.0	.0		3.5	.1	1.6	.3	.0	.0	.0		2.0	
3-4	.1	1.8	2.4	.2	.0	.0		4.6	.0	.7	1.4	.1	.0	.0		2.2	
5-6	.0	.2	2.3	.6	.1	.0		3.1	.0	.3	1.2	.4	.1	.0		2.0	
7	.0	.1	1.0	.8	.1	.0		1.9	.0	.0	.6	.3	.0	.0		.9	
8-9	.0	.0	.3	.4	.2	.0		.9	.0	.0	.1	.2	.1	.0		.5	
10-11	.0	.0	.0	.5	.2	.0		.7	.0	.0	.0	.2	.0	.0		.2	
12	.0	.0	.0	.0	.0	.0		.1	.0	.0	.0	.0	.0	.0		.0	
13-16	.0	.0	.0	.2	.1	.0		.3	.0	.0	.0	.0	.0	.0		.0	
17-19	.0	.0	.0	.0	.0	.0		.0	.0	.0	.0	.0	.0	.0		.0	
20-22	.0	.0	.0	.1	.1	.0		.2	.0	.0	.0	.0	.0	.0		.1	
23-25	.0	.0	.0	.0	.0	.0		.0	.0	.0	.0	.1	.0	.0		.0	
26-32	.0	.0	.0	.0	.0	.0		.0	.0	.0	.0	.0	.0	.0		.0	
33-40	.0	.0	.0	.0	.0	.0		.0	.0	.0	.0	.0	.0	.0		.0	
41-48	.0	.0	.0	.0	.0	.0		.0	.0	.0	.0	.0	.0	.0		.0	
49-60	.0	.0	.0	.0	.0	.0		.0	.0	.0	.0	.0	.0	.0		.0	
61-70	.0	.0	.0	.0	.0	.0		.0	.0	.0	.0	.0	.0	.0		.0	
71-86	.0	.0	.0	.0	.0	.0		.0	.0	.0	.0	.0	.0	.0		.0	
87+	.0	.0	.0	.0	.0	.0		.0	.0	.0	.0	.0	.0	.0		.0	
TOT PCT	.4	5.4	6.9	2.8	.9	.0		16.3	.2	3.0	3.7	1.4	.2	.0		8.5	97.6

WIND SPEED (KTS) VS SEA HEIGHT (FT)

HGT	0-3	4-10	11-21	22-33	34-47	48+	PCT	TOT DBS
<1	5.5	5.8	.1	.0	.0	.0	12.3	
1-2	.8	21.1	5.3	.0	.0	.0	27.3	
3-4	.2	12.0	16.3	1.1	.0	.0	29.7	
5-6	.0	1.7	13.3	2.7	.2	.0	17.9	
7	.0	.1	4.3	2.1	.1	.0	6.5	
8-9	.0	.1	1.1	1.5	.0	.0	3.2	
10-11	.0	.0	.2	1.3	.2	.0	1.8	
12	.0	.0	.0	.2	.0	.0	.3	
13-16	.0	.0	.0	.3	.2	.1	.5	
17-19	.0	.0	.0	.1	.1	.0	.2	
20-22	.0	.0	.0	.2	.1	.0	.3	
23-25	.0	.0	.0	.1	.0	.0	.1	
26-32	.0	.0	.0	.0	.0	.0	.0	
33-40	.0	.0	.0	.0	.0	.0	.0	
41-48	.0	.0	.0	.0	.0	.0	.0	
49-60	.0	.0	.0	.0	.0	.0	.0	
61-70	.0	.0	.0	.0	.0	.0	.0	
71-86	.0	.0	.0	.0	.0	.0	.0	
87+	.0	.0	.0	.0	.0	.0	.0	
TOT PCT	6.6	41.7	40.7	9.5	1.4	.1	100.0	1991

PERIOD: (OVER-ALL) 1949-1969

TABLE 19

PERCENT FREQUENCY OF WAVE HEIGHT (FT) VS WAVE PERIOD (SECONDS)

PERIOD (SEC)	<1	1-2	3-4	5-6	7	8-9	10-11	12	13-16	17-19	20-22	23-25	26-32	33-40	41-48	49-60	61-70	71-86	87+	TOTAL	MEAN HGT
<6	3.3	9.5	11.7	5.3	1.7	.5	.4	.1	.2	.1	.0	.0	.0	.0	.0	.0	.0	.0	.0	838	3
6-7	.0	.7	5.2	8.2	5.7	2.2	1.2	.6	.3	.2	.0	.0	.0	.0	.0	.0	.0	.0	.0	615	5
8-9	.0	.3	1.8	4.4	4.8	3.7	2.2	.6	.9	.1	.1	.0	.1	.0	.0	.0	.0	.0	.0	485	7
10-11	.0	.5	.6	1.1	2.3	1.8	2.0	.6	.7	.0	.2	.0	.0	.0	.0	.0	.0	.0	.0	255	8
12-13	.0	.0	.4	.3	.4	.7	.5	.5	.7	.0	.2	.1	.0	.0	.0	.0	.0	.0	.0	94	10
>13	.0	.0	.0	.2	.2	.4	.3	.2	.3	.2	.1	.0	.0	.0	.0	.0	.0	.0	.0	50	11
INDET	2.5	.9	1.4	.9	1.0	.4	.5	.1	.3	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	205	4
TOTAL	5.8	11.9	21.2	20.3	16.1	9.6	7.3	2.8	3.4	.6	.6	.2	.2	.0	.0	.0	.0	.0	.0	2546	5
PCT	5.8	11.9	21.2	20.3	16.1	9.6	7.3	2.8	3.4	.6	.6	.2	.2	.0	.0	.0	.0	.0	.0	100.0	

PERIOD: (PRIMARY) 1907-1971  
(OVER-ALL) 1854-1971

AREA 0013 SPENCER GULF  
35.25 136.9E

TABLE 20

PERCENT FREQUENCY OF OCCURRENCE OF SEA TEMP (DEG F) BY MONTH

SEA TMP DEG F	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC	ANN	PCT
96+	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	0	.0
95/96	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	0	.0
93/94	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	0	.0
91/92	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	0	.0
89/90	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	0	.0
87/88	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	0	.0
85/86	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	0	.0
83/84	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	0	.0
81/82	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	0	.0
79/80	.0	.3	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	3	*
77/78	.2	.4	.2	.0	.0	.0	.0	.0	.0	.0	.0	.0	8	.1
75/76	.3	.7	.3	.0	.0	.0	.0	.0	.0	.0	.0	.0	15	.1
73/74	1.2	2.7	1.3	.0	.0	.0	.0	.0	.0	.0	.0	.6	57	.5
71/72	3.1	6.2	5.1	.2	.0	.0	.0	.0	.0	.0	.6	1.1	195	1.4
69/70	6.2	11.1	10.8	1.9	.0	.2	.1	.2	.1	.0	.9	2.9	409	3.0
67/68	16.9	21.4	19.3	7.8	.2	.2	.4	.0	.1	.2	2.1	5.6	898	6.6
65/66	24.6	28.6	25.1	25.7	6.2	.4	.4	.1	.0	.2	5.3	13.5	1573	11.5
63/64	28.1	20.1	23.8	37.9	28.7	6.0	.4	.6	.6	2.9	14.3	27.5	2272	16.6
61/62	12.9	5.7	9.7	19.0	33.6	19.5	5.7	2.1	1.8	8.3	25.8	25.7	1963	14.3
59/60	4.2	1.9	3.0	5.5	24.0	33.3	21.9	9.8	12.5	30.8	33.9	14.7	2176	15.9
57/58	1.1	.6	.9	1.2	5.5	27.3	32.9	36.0	39.3	37.4	13.0	4.2	2179	15.9
55/56	.7	.2	.5	.5	1.5	10.1	30.0	35.4	36.7	17.4	3.3	1.8	1484	10.8
53/54	.2	.2	.0	.3	.2	2.1	6.2	12.4	7.4	2.2	.2	.5	343	2.5
51/52	.0	.0	.0	.0	.1	.1	1.5	2.5	1.2	.5	.6	.0	70	.5
49/50	.0	.0	.0	.0	.0	.5	.4	.7	.4	.1	.0	.0	22	.2
47/48	.0	.0	.0	.0	.0	.1	.0	.2	.0	.0	.0	.0	3	*
45/46	.0	.0	.0	.0	.0	.0	.1	.0	.0	.0	.0	.0	1	*
43/44	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	0	.0
41/42	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	0	.0
39/40	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	0	.0
37/38	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	0	.0
35/36	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	0	.0
33/34	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	0	.0
31/32	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	0	.0
29/30	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	0	.0
27/28	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	0	.0
<27	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	0	.0
TOTAL	1180	1141	1273	1287	1213	947	951	1113	1084	1261	1147	1084	13681	100.0
MEAN	65.0	66.2	65.6	63.7	61.4	59.0	57.2	56.3	56.7	58.1	60.7	62.7	61.0	

TABLE 21

PRESSURE (MB)

AVERAGE BY HOUR (GMT)

MO	0000	0300	0500	0900	1200	1500	1800	2100	MEAN	TOTAL HRS
JAN	1015	1015	1013	1015	1014	1013	1013	1010	1014	636
FEB	1016	1014	1015	1013	1015	1014	1014	1011	1015	554
MAR	1018	1017	1016	1016	1018	1017	1017	1015	1017	699
APR	1020	1020	1019	1018	1020	1020	1019	1016	1020	687
MAY	1020	1018	1017	1016	1018	1018	1019	1016	1018	647
JUN	1020	1022	1021	1025	1021	1023	1019	1025	1021	482
JUL	1019	1017	1015	1016	1018	1020	1017	1014	1018	473
AUG	1019	1017	1015	1018	1018	1018	1018	1018	1018	576
SEP	1018	1017	1016	1015	1017	1017	1017	1013	1017	551
OCT	1017	1017	1015	1022	1016	1016	1016	1024	1016	605
NOV	1016	1016	1015	1017	1016	1016	1014	1015	1016	566
DEC	1014	1014	1013	1013	1013	1013	1013	1016	1013	491
ANN	1018	1017	1016	1017	1017	1017	1016	1016	1017	6967
OBS	1001	812	1115	116	1626	760	1427	110		

PERCENTILES

MO	MIN	1%	5%	25%	50%	75%	95%	99%	MAX
JAN	997	1000	1004	1010	1014	1018	1023	1025	1027
FEB	997	1000	1004	1012	1015	1018	1022	1025	1028
MAR	994	998	1007	1014	1017	1021	1026	1028	1031
APR	995	1003	1008	1016	1020	1024	1028	1033	1034
MAY	991	994	1004	1013	1019	1024	1030	1034	1037
JUN	993	999	1005	1016	1022	1027	1032	1036	1040
JUL	982	991	1003	1012	1017	1024	1030	1033	1038
AUG	992	996	1004	1012	1017	1024	1032	1036	1041
SEP	993	999	1003	1013	1018	1022	1028	1031	1034
OCT	989	994	1002	1011	1017	1022	1027	1030	1032
NOV	988	999	1005	1011	1016	1020	1026	1029	1030
DEC	995	997	1003	1010	1014	1017	1023	1025	1028

## JANUARY

 PERIOD: (PRIMARY) 1911-1971  
 (OVER-ALL) 1855-1971

 AREA 0014 AUSTRALIAN BIGHT SE  
 36.05 132.1E

TABLE 1

PERCENT FREQUENCY OF WEATHER OCCURRENCE BY WIND DIRECTION

WIND DIR	PRECIPITATION TYPE							OTHER WEATHER PHENOMENA							
	RAIN	RAIN SHWR	DRZL	FRZG PCPN	SNOW	OTHER FRZN PCPN	HAIL	PCPN AT DB TIME	PCPN PAST HOUR	THDR LTNG	FGD WD PCPN	FGD WD PCPN PAST HR	SMOKE HAZE	SPRAY BLWG DUST	NO SIG WEA
N	.6	3.1	2.5	.0	.0	.0	.0	6.3	.9	2.8	1.3	.9	2.5	.0	85.2
NE	.0	1.1	.0	.0	.0	.0	.0	1.1	3.0	1.3	4.3	.2	.0	.0	90.0
E	1.1	.8	.5	.0	.0	.0	.0	2.4	1.3	2.3	1.8	.0	1.6	.0	91.1
SE	.2	2.0	1.5	.0	.0	.0	.0	3.7	.0	1.3	1.5	.0	.9	.0	92.6
S	1.8	3.6	2.5	.0	.0	.0	.0	7.5	1.5	.2	2.7	.0	.2	.0	87.9
SW	1.5	5.3	1.4	.0	.0	.0	.4	8.6	1.5	2.9	1.8	.0	.0	.0	85.9
W	2.1	4.9	3.4	.0	.0	.0	.0	10.4	3.1	1.4	2.3	.0	.0	.0	82.7
NW	1.0	7.8	.0	.0	.0	.0	.0	8.8	.5	.5	2.0	.0	.0	.0	88.3
VAR	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
CALM	.0	.0	.0	.0	.0	.0	.0	.0	.0	6.7	.0	.0	5.7	.0	86.7
TOT PCT	1.2	3.3	1.6	.0	.0	.0	.1	6.1	1.5	1.7	2.2	.1	.6	.0	88.2
TOT OBS:	1435														

TABLE 2

PERCENT FREQUENCY OF WEATHER OCCURRENCE BY HOUR

HOUR (GMT)	PRECIPITATION TYPE							OTHER WEATHER PHENOMENA							
	RAIN	RAIN SHWR	DRZL	FRZG PCPN	SNOW	OTHER FRZN PCPN	HAIL	PCPN AT DB TIME	PCPN PAST HOUR	THDR LTNG	FGD WD PCPN	FGD WD PCPN PAST HR	SMOKE HAZE	SPRAY BLWG DUST	NO SIG WEA
0000	1.1	4.7	1.1	.0	.0	.0	.2	7.2	1.3	.7	2.0	.0	.9	.0	88.3
0600	1.7	2.0	.3	.0	.0	.0	.0	4.0	1.2	.0	1.4	.0	.9	.0	92.5
1200	.5	3.2	1.8	.0	.0	.0	.0	5.5	1.1	2.9	3.4	.0	.3	.0	86.8
1800	1.3	2.3	3.3	.0	.0	.0	.0	6.7	2.3	3.3	2.0	.3	.3	.0	85.3
TOT PCT	1.2	3.2	1.6	.0	.0	.0	.1	5.9	1.4	1.6	2.2	.1	.6	.0	88.3
TOT OBS:	1471														

TABLE 3

PERCENTAGE FREQUENCY OF WIND DIRECTION BY SPEED AND BY HOUR

WIND DIR	WIND SPEED (KNOTS)							48+	TOTAL OBS	PCT FREQ	MEAN SPD	HOUR (GMT)						
	0-3	4-10	11-21	22-33	34-47	00	03					06	09	12	15	18	21	
N	.5	2.0	2.2	.4	*	.0		5.2	11.5		5.2	6.1	6.6	16.7	3.3	4.6	4.6	20.0
NE	.6	3.9	3.4	.5	*	.0		8.4	11.1		10.0	9.5	7.5	25.0	6.6	6.4	9.0	35.0
E	1.2	5.8	6.7	.6	*	.0		14.4	11.2		14.4	15.6	13.1	8.3	14.3	14.1	15.0	25.0
SE	.9	7.1	6.7	1.0	.1	.0		15.8	11.6		14.8	13.8	16.5	.0	17.1	18.3	15.8	.0
S	.8	9.1	8.4	1.5	.2	.0		19.9	12.2		18.6	17.2	21.2	33.3	22.4	25.1	17.1	20.0
SW	.5	7.1	9.0	2.2	.3	.0		19.1	13.7		16.8	20.9	19.5	16.7	20.9	17.7	18.8	.0
W	.5	3.3	5.2	2.2	.2	.0		11.4	14.7		12.6	10.2	11.1	.0	11.9	7.4	13.0	.0
NW	.2	2.0	1.6	.5	*	.0		4.4	12.3		4.9	5.5	3.9	.0	2.9	4.6	5.0	.0
VAR	.0	.0	.0	.0	.0	.0		.0	.0		.0	.0	.0	.0	.0	.0	.0	.0
CALM	1.4							1.4	.0		2.6	1.2	.5	.0	.5	1.7	1.8	.0
TOT OBS	142	859	916	188	19	0	2124		12.2		416	325	425	6	388	175	384	5
TOT PCT	6.7	40.4	43.1	8.9	.9	.0		100.0			100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0

TABLE 3A

WIND DIR	0-6	WIND SPEED (KNOTS)				41+	TOTAL OBS	PCT FREQ	MEAN SPD	HOUR (GMT)				
		7-16	17-27	28-40	00 03					06 09	12 15	18 21		
N	1.3	2.9	.8	.2	.0		5.2	11.5	5.6	6.8	3.7	4.8		
NE	2.1	4.6	1.6	.2	.0		8.4	11.1	9.8	7.8	6.6	9.3		
E	3.2	8.8	2.2	.2	*		14.4	11.2	14.9	13.0	14.3	15.1		
SE	3.2	9.6	2.8	.3	*		15.8	11.6	14.4	16.3	17.5	15.6		
S	3.5	11.3	4.6	.5	*		19.9	12.2	18.0	21.3	23.3	17.1		
SW	2.7	9.9	5.3	1.1	.1		19.1	13.7	18.6	19.5	19.9	18.6		
W	1.8	5.2	3.6	.8	*		11.4	14.7	11.5	11.0	10.5	12.9		
NW	1.2	2.0	.9	.2	*		4.4	12.3	5.1	3.9	3.4	4.9		
VAR	.0	.0	.0	.0	.0		.0	.0	.0	.0	.0	.0		
CALM	1.4						1.4	.0	2.0	.5	.9	1.8		
TOT OBS	432	1152	461	74	5	2124		12.2	741	431	563	389		
TOT PCT	20.3	54.2	21.7	3.5	.2		100.0		100.0	100.0	100.0	100.0		

PERIOD: (PRIMARY) 1911-1971  
(OVER-ALL) 1855-1971

JANUARY

AREA 0014 AUSTRALIAN BIGHT SE  
36.05 132.1E

TABLE 4

PERCENTAGE FREQUENCY OF WIND SPEED BY HOUR (GMT)

HOUR	CALM	WIND SPEED (KNOTS)						MEAN	PCT FREQ	TOTAL OBS
		1-3	4-10	11-21	22-33	34-47	48+			
0000	2.0	7.0	36.8	44.3	9.2	.7	.0	12.1	100.0	741
0600	.5	2.8	45.5	41.3	9.0	.9	.0	12.5	100.0	431
1200	.9	5.3	41.9	41.9	9.1	.9	.0	12.2	100.0	563
1800	1.8	4.9	39.6	44.7	7.7	1.3	.0	12.1	100.0	389
TOT	29	113	859	916	188	19	0	12.2		2124
PCT	1.4	5.3	40.4	43.1	8.9	.9	.0	100.0		

TABLE 5

PCT FREQ OF TOTAL CLOUD AMOUNT (EIGHTHS)  
BY WIND DIRECTION

WIND DIR	0-2	3-4	5-7	8 & OBS	TOTAL OBS	MEAN CLOUD COVER
N	3.1	.5	2.1	.4	3.5	3.5
NE	3.0	2.3	2.8	.8	3.8	3.8
E	3.7	1.8	6.0	2.7	4.8	4.8
SE	2.0	1.9	6.8	6.7	5.9	5.9
S	1.9	3.5	5.6	6.1	5.7	5.7
SW	3.4	3.3	5.9	4.1	5.0	5.0
W	3.3	2.0	5.3	3.3	4.9	4.9
NW	1.4	.9	1.0	.9	4.1	4.1
VAR	.0	.0	.0	.0	.0	.0
CALM	.9	.0	.5	.3	3.6	3.6
TOT OBS	179	129	284	196	788	5.0
TOT PCT	22.7	16.4	36.0	24.0	100.0	

TABLE 6

PERCENTAGE FREQUENCY OF CEILING HEIGHTS (FT, NH >4/8)  
AND OCCURRENCE OF NH <5/8 BY WIND DIRECTION

	000	150	300	600	1000	2000	3500	5000	6500	8000+	NH <5/8 ANY HGT	TOTAL OBS
	149	299	599	999	1999	3499	4999	6499	7999			
N	.0	.0	.1	.5	.3	.6	.3	.0	.0	.0	.0	4.6
NE	.0	.0	.*	.6	1.0	.6	.3	.1	.0	.0	.0	6.3
E	.0	.1	.0	1.2	2.7	1.7	1.1	.3	.1	.3	.3	6.8
SE	.0	.0	.2	1.3	3.8	3.6	1.7	.2	.0	.1	.1	6.0
S	.0	.0	.6	1.1	3.3	2.6	1.3	1.2	.0	.0	.0	7.0
SW	.0	.0	.4	1.6	2.4	2.1	1.2	.4	.1	.3	.3	8.3
W	.2	.0	.2	1.7	1.9	1.8	.7	.2	.1	.1	.1	7.0
NW	.*	.0	.0	.0	.6	.4	.2	.1	.0	.0	.0	2.9
VAR	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
CALM	.0	.0	.0	.0	.4	.1	.1	.0	.0	.1	.1	.9
TOT OBS	2	1	12	63	128	106	54	20	2	7	393	788
TOT PCT	.3	.1	1.5	8.0	16.2	13.5	6.9	2.5	.3	.9	49.0	100.0

TABLE 7

CUMULATIVE PCT FREQ OF SIMULTANEOUS OCCURRENCE  
OF CEILING HEIGHT (NH >4/8) AND VSBY (NM)

CEILING (FEET)	VSBY (NM)							
	>10	>5	>2	>1	>1/2	>1/4	>50YD	>0
>6500	.8	1.1	1.1	1.1	1.1	1.1	1.1	1.1
>6000	2.6	3.8	3.8	3.8	3.8	3.8	3.8	3.8
>5500	8.7	10.3	10.4	10.4	10.4	10.4	10.4	10.4
>5000	21.1	23.6	23.7	23.7	23.7	23.7	23.7	23.7
>4500	35.8	39.6	39.8	39.8	39.8	39.8	39.8	39.8
>4000	42.1	47.4	47.9	47.9	47.9	47.9	47.9	47.9
>3500	42.8	48.7	49.4	49.4	49.4	49.4	49.4	49.4
>3000	43.0	48.9	49.5	49.5	49.5	49.5	49.5	49.5
>2500	43.1	49.0	49.6	49.6	49.6	49.6	49.6	49.6
TOTAL	343	390	395	395	395	396	396	396

TOTAL NUMBER OF OBS: 796

PCT FREQ NH <5/8: 50.3

TABLE 7A

PERCENTAGE FREQ OF LOW CLOUDS (EIGHTHS)

0	1	2	3	4	5	6	7	8	OBS	TOTAL OBS
12.3	11.8	7.7	8.7	9.3	8.4	9.1	11.8	20.6	.1	853

PERIOD: (PRIMARY) 1911-1971  
(OVER-ALL) 1859-1971

JANUARY

AREA 0014 AUSTRALIAN BIGHT SE  
36.05 132.1E

TABLE 8

PERCENT FREQ OF WIND DIRECTION VS OCCURRENCE OR NON-OCCURRENCE OF  
PRECIPITATION WITH VARYING VALUES OF VISIBILITY

VSBY (NM)		N	NE	E	SE	S	SW	W	NW	VAR	CALM	PCT	TOTAL OBS
<1/2	PCP	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
	NO PCP	*	*	.0	.0	.1	.0	.1	.0	.0	.0	.0	.2
	TOT %	*	*	.0	.0	.1	.0	.1	.0	.0	.0	.0	.2
1/2<1	PCP	.1	.0	.1	*	*	.0	.0	.1	.0	.0	.0	.3
	NO PCP	*	.3	.3	.2	.1	.1	.2	.0	.0	.0	.0	1.3
	TOT %	.1	.3	.3	.2	.1	.1	.2	.1	.0	.0	.0	1.6
1<2	PCP	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
	NO PCP	.1	.0	.2	.1	*	.0	.0	.0	.0	.0	.0	.5
	TOT %	.1	.0	.2	.1	*	.0	.0	.0	.0	.0	.0	.5
2<5	PCP	.0	.0	.0	.0	.0	.0	.1	.0	.0	.0	.0	.1
	NO PCP	.1	*	.0	.0	.1	.1	.1	.1	.0	.0	.0	.5
	TOT %	.1	*	.0	.0	.1	.1	.3	.1	.0	.0	.0	.6
5<10	PCP	.2	.1	.2	.5	1.1	1.2	.9	.2	.0	.0	.0	4.4
	NO PCP	1.5	2.0	6.2	6.2	7.6	8.4	3.1	1.0	.0	.2	.0	36.3
	TOT %	1.7	2.1	6.4	6.8	8.8	9.6	4.0	1.2	.0	.2	.0	40.7
10+	PCP	.1	*	.1	*	.3	.4	.2	.0	.0	.0	.0	1.2
	NO PCP	3.5	5.6	8.2	9.0	9.6	9.0	7.4	2.1	.0	.8	.0	55.2
	TOT %	3.5	5.6	8.4	9.0	9.9	9.5	7.6	2.1	.0	.8	.0	56.4
TOT OBS		1433											
TOT PCT		5.5	8.1	15.3	15.1	19.0	19.2	12.2	3.5	.0	1.0	100.0	

TABLE 9

PERCENT FREQ OF WIND DIRECTION VS WIND SPEED  
WITH VARYING VALUES OF VISIBILITY

VSBY (NM)	SPD KTS	N	NE	E	SE	S	SW	W	NW	VAR	CALM	PCT	TOTAL OBS
<1/2	0-3	*	*	.0	.0	.0	.0	.0	.0	.0	.0	.1	
	4-10	.0	.0	.0	.0	.1	.0	.0	.0	.0	.0	.1	
	11-21	.0	.0	.0	.0	.0	.0	.1	.0	.0	.0	.1	
	22+	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
	TOT %	*	*	.0	.0	.1	.0	.1	.0	.0	.0	.2	
1/2<1	0-3	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
	4-10	.0	.2	.2	.2	.1	*	.0	.0	.0	.0	.6	
	11-21	.1	.1	.1	.0	.0	*	.1	.1	.0	.0	.5	
	22+	.1	.0	*	*	.1	.0	.1	.0	.0	.0	.3	
	TOT %	.1	.3	.3	.2	.1	.1	.2	.1	.0	.0	1.5	
1<2	0-3	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
	4-10	.0	.0	.1	*	*	.0	.0	.0	.0	.0	.2	
	11-21	.1	.0	.1	*	.0	.0	.0	.0	.0	.0	.3	
	22+	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
	TOT %	.1	.0	.2	.1	*	.0	.0	.0	.0	.0	.4	
2<5	0-3	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
	4-10	*	*	.0	.0	*	*	.1	.1	.0	.0	.3	
	11-21	.0	.0	.0	.0	.3	.1	.1	.0	.0	.0	.4	
	22+	.0	.0	.0	.0	.1	.0	.2	.0	.0	.0	.3	
	TOT %	*	*	.0	.0	.3	.1	.3	.1	.0	.0	.9	
5<10	0-3	.3	.4	.7	.5	.1	.2	.1	.1	.0	.2	2.5	
	4-10	.5	.9	2.6	2.0	3.1	2.4	.7	.3	.0	.0	12.6	
	11-21	.6	.5	2.4	3.2	4.1	4.6	1.9	.4	.0	.0	17.7	
	22+	.1	.2	.1	.7	.9	1.7	1.0	.3	.0	.0	4.8	
	TOT %	1.6	2.0	5.8	6.3	8.2	8.8	3.7	1.1	.0	.2	37.6	
10+	0-3	.2	.4	.2	.4	.7	.2	.5	.1	.0	1.2	3.9	
	4-10	1.6	2.9	2.9	4.8	5.6	4.2	2.6	1.5	.0	.0	26.1	
	11-21	1.4	2.4	5.0	4.3	4.2	4.6	3.6	.5	.0	.0	26.0	
	22+	.3	.1	.4	.3	.7	.6	.9	.1	.0	.0	3.4	
	TOT %	3.5	5.8	8.5	9.8	11.2	9.6	7.5	2.2	.0	1.2	59.4	
TOT OBS		1575											
TOT PCT		5.5	8.1	14.8	16.4	20.0	18.6	11.8	3.5	.0	1.4	100.0	



## JANUARY

PERIOD: (PRIMARY) 1911-1971  
(OVER-ALL) 1855-1971

AREA 0014 AUSTRALIAN RIGHT SF  
36.05 132.1E

TABLE 10

PERCENT FREQUENCY OF CEILING HEIGHTS (FEET, NH > 4/8) AND  
OCCURRENCE OF NH < 5/8 BY HOUR

HOUR (GMT)	000 149	150 299	300 599	600 999	1000 1999	2000 3499	3500 4999	5000 6499	6500 7999	8000+	TOTAL	NH < 5/8 ANY HGT	TOTAL OBS
00003	.9	.0	1.8	9.6	14.6	14.2	6.4	3.2	.0	1.4	52.1	47.9	219
06009	.0	.0	.9	3.9	18.2	12.6	5.6	2.6	.4	.9	45.0	55.0	231
12015	.0	.5	1.1	9.7	12.9	10.8	6.5	1.1	.0	1.1	43.5	56.5	186
18021	.0	.0	2.2	8.6	16.1	14.0	8.1	3.2	.5	.0	52.7	47.3	186
TOT	2	1	12	64	128	106	54	21	2	7	397	425	822
PCT	.2	.1	1.5	7.8	15.6	12.9	6.6	2.6	.2	.9	48.3	51.7	100.0

TABLE 11

PERCENT FREQUENCY VS BY (NM) BY HOUR

HOUR (GMT)	<1/2	1/2<1	1<2	2<5	5<10	10+	TOTAL OBS
00003	.2	1.2	.6	1.0	46.0	50.9	493
06009	.0	.8	.8	.3	30.2	67.9	368
12015	.5	2.3	.0	.9	39.9	56.4	429
18021	.0	1.6	.3	1.6	32.1	64.5	321
TOT	3	24	7	15	612	950	1611
PCT	.2	1.5	.4	.9	38.0	59.0	100.0

TABLE 12

CUMULATIVE PCT FREQ OF RANGES OF VS BY (NM) AND/OR  
CEILING HGT (FEET, NH > 4/8), BY HOUR

HOUR (GMT)	<150 <50YD	<600 <1	<1000 <5	1000+ AND 5+	NH < 5/8 AND 5+	TOTAL OBS
00003	.9	2.8	12.6	40.5	47.0	215
06009	.0	.9	5.4	41.0	53.6	222
12015	.0	1.7	11.9	33.9	54.2	177
18021	.0	2.2	11.5	42.3	46.2	182
TOT	2	15	81	315	400	796
PCT	.3	1.9	10.2	39.6	50.3	100.0

TABLE 13

PERCENT FREQUENCY OF RELATIVE HUMIDITY BY TEMP

TEMP F	0-29	30-39	40-49	50-59	60-69	70-79	80-89	90-100	TOTAL OBS	PCT FREQ
75/79	.0	.0	.0	.1	.0	.1	.0	.0	2	.2
70/74	.0	.0	.0	.0	.6	1.5	.9	.0	30	3.0
65/69	.0	.0	.0	.2	1.5	6.0	7.6	4.6	202	20.0
60/64	.0	.0	.0	1.3	12.0	18.9	17.6	9.0	594	58.8
55/59	.0	.0	.0	.5	3.5	5.8	4.7	3.2	179	17.7
50/54	.0	.0	.0	.0	.1	.0	.1	.2	4	.4
TOTAL	0	0	0	21	178	327	313	172	1011	100.0
PCT	.0	.0	.0	2.1	17.6	32.3	31.0	17.0		

TABLE 14

PERCENT FREQUENCY OF WIND DIRECTION BY TEMP

	N	NE	E	SE	S	SW	W	NW	VAR	CALM
75/79	.1	*	.1	.0	.0	.0	.0	.0	.0	.0
70/74	.8	.1	.4	.6	.0	.3	.4	.2	.0	.1
65/69	2.4	2.7	3.6	3.2	2.3	1.7	2.3	1.6	.0	.2
60/64	2.3	4.2	8.4	9.5	11.0	12.8	7.9	1.8	.0	.8
55/59	.1	.5	1.6	3.4	6.4	3.9	1.5	.2	.0	.1
50/54	.0	.0	.0	*	.1	.1	*	.0	.0	.0
TOTAL	5.6	7.7	14.1	16.7	19.9	18.8	12.1	3.8	.0	1.2

TABLE 15

MEANS, EXTREMES AND PERCENTILES OF TEMP (DEG F) BY HOUR

HOUR (GMT)	MAX	99%	95%	50%	5%	1%	MIN	MEAN	TOTAL OBS
00003	74	72	69	63	58	56	54	63.1	728
06009	77	74	70	64	59	57	55	64.1	477
12015	74	69	66	61	57	55	53	61.4	565
18021	79	69	66	61	57	55	54	60.8	390
TOT	79	72	69	62	57	55	53	62.4	2110

TABLE 16

PERCENT FREQUENCY OF RELATIVE HUMIDITY BY HOUR

HOUR (GMT)	0-29	30-59	60-69	70-79	80-89	90-100	MEAN	TOTAL OBS
00003	.0	2.1	20.3	29.2	32.6	15.8	79	291
06009	.0	3.4	21.0	37.4	27.9	10.3	76	262
12015	.0	.4	14.2	35.0	28.3	22.0	81	254
18021	.0	2.7	13.0	29.1	35.0	20.2	81	273
TOT	0	22	179	337	318	174	79	1030

## JANUARY

PERIOD: (PRIMARY) 1911-1971  
(OVER-ALL) 1855-1971AREA 0014 AUSTRALIAN BIGHT SE  
36.05 132.1E

TABLE 17

PCT FREQ OF AIR TEMPERATURE (DEG F) AND THE OCCURRENCE OF FOG (WITHOUT PRECIPITATION)  
VS AIR-SEA TEMPERATURE DIFFERENCE (DEG F)

AIR-SEA TMP DIF	53 56	57 60	61 64	65 68	69 72	73 76	77 80	TOT	N FOG	WD FOG
11/13	.0	.0	.0	.0	.0	.2	.1	3	.0	.2
9/10	.0	.0	.0	.0	.1	.1	.0	2	.0	.2
7/8	.0	.0	.1	.2	.5	.2	.1	13	.0	1.0
6	.0	.0	.2	.2	.2	.1	.0	8	.0	.6
5	.0	.0	.1	.4	.8	.1	.0	17	.1	1.2
4	.0	.1	.5	2.0	.9	.2	.0	48	.0	3.7
3	.0	.0	.9	2.7	1.2	.0	.0	61	.2	4.5
2	.0	.2	2.3	4.0	.3	.0	.0	87	.3	6.5
1	.0	.7	5.6	4.4	.1	.0	.0	138	.0	10.8
0	.0	1.1	11.1	3.4	.0	.0	.0	200	.4	15.2
-1	.2	4.1	11.5	1.6	.0	.0	.0	222	.5	16.8
-2	.2	6.2	8.7	.3	.0	.0	.0	197	.5	14.9
-3	.6	6.4	3.2	.1	.1	.0	.0	133	.2	10.2
-4	.4	5.2	1.6	.1	.0	.0	.0	93	.3	6.9
-5	.3	1.9	.6	.1	.0	.0	.0	37	.2	2.7
-6	.4	.2	.2	.0	.0	.0	.0	10	.0	.8
-7/-8	.2	.6	.2	.0	.0	.0	.0	13	.0	1.0
-9/-10	.0	.0	.1	.0	.0	.0	.0	1	.0	.1
TOTAL	28	342	600	247	54	10	2	1283	33	1250
PCT	2.2	26.7	46.8	19.3	4.2	.8	.2	100.0	2.6	97.4

PERIOD: (OVER-ALL) 1963-1971

TABLE 18

PCT FREQ OF WIND SPEED (KTS) AND DIRECTION VERSUS SEA HEIGHTS (FT)

HGT	1-3	4-10	11-21	22-33	34-47	48+	PCT	1-3	4-10	11-21	22-33	34-47	48+	PCT
<1	.0	.2	.0	.0	.0	.0	.2	.2	.2	.0	.0	.0	.0	.4
1-2	.2	1.2	.9	.0	.0	.0	2.4	.0	2.1	.7	.0	.0	.0	2.8
3-4	.0	1.0	1.7	.2	.0	.0	2.9	.0	1.6	1.0	.0	.0	.0	2.4
5-6	.0	.2	1.0	.4	.0	.0	1.6	.2	.2	.4	.0	.0	.0	.9
7	.0	.0	.2	.2	.0	.0	.4	.0	.0	.6	.0	.0	.0	.6
8-9	.0	.0	.0	.2	.0	.0	.2	.0	.0	.2	.0	.0	.0	.2
10-11	.0	.0	.0	.2	.0	.0	.2	.0	.0	.0	.2	.0	.0	.2
12	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
13-16	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
17-19	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
20-22	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
23-25	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
26-32	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
33-40	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
41-48	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
49-60	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
61-70	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
71-86	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
87+	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
TOT PCT	.2	2.7	3.7	1.2	.0	.0	7.8	.4	3.9	3.0	.2	.0	.0	7.6

HGT	1-3	4-10	11-21	22-33	34-47	48+	PCT	1-3	4-10	11-21	22-33	34-47	48+	PCT
<1	.0	.4	.0	.0	.0	.0	.4	.0	.5	.0	.0	.0	.0	.5
1-2	.4	1.8	1.7	.0	.0	.0	3.9	.0	2.0	.3	.0	.0	.0	2.3
3-4	.0	1.1	2.5	.0	.0	.0	3.6	.0	2.9	3.0	.0	.0	.0	6.0
5-6	.0	.2	2.7	.6	.0	.0	3.5	.0	.9	1.9	.2	.0	.0	3.0
7	.0	.0	1.1	.6	.0	.0	1.7	.0	.0	.3	.0	.0	.0	.3
8-9	.0	.0	.0	.0	.0	.0	.0	.0	.0	.5	.0	.0	.0	.5
10-11	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.4	.0	.0	.4
12	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.2	.2	.0	.4
13-16	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
17-19	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
20-22	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
23-25	.0	.0	.0	.0	.2	.0	.2	.0	.0	.0	.0	.1	.0	.1
26-32	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
33-40	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
41-48	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
49-60	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
61-70	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
71-86	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
87+	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
TOT PCT	.4	3.5	8.0	1.3	.2	.0	13.3	.0	6.3	6.0	.9	.3	.0	13.4

PERIOD: (OVER-ALL) 1963-1971

JANUARY

AREA 0014 AUSTRALIAN RIGHT SE  
36.05 132.1E

TABLE 18 (CONT)

PCT FREQ OF WIND SPEED (KTS) AND DIRECTION VERSUS SEA HEIGHTS (FT)

HGT	S							SW							PCT
	1-3	4-10	11-21	22-33	34-47	48+	PCT	1-3	4-10	11-21	22-33	34-47	48+	PCT	
<1	.2	.6	.0	.0	.0	.0	.8	.1	1.1	.0	.0	.0	.0	1.2	
1-2	.2	5.2	.5	.0	.0	.0	5.9	.0	2.9	.9	.0	.0	.0	3.8	
3-4	.0	3.8	1.8	.0	.0	.0	5.7	.0	2.8	2.2	.1	.0	.0	5.1	
5-6	.0	.0	2.5	.0	.0	.0	2.5	.0	1.4	4.1	.0	.0	.0	5.6	
7	.0	.2	.5	.2	.0	.0	.9	.0	.3	1.5	.5	.0	.0	2.3	
8-9	.0	.0	.4	.6	.0	.0	1.0	.0	.0	.1	.0	.0	.0	.1	
10-11	.0	.0	.2	.0	.0	.0	.2	.0	.0	.0	.1	.0	.0	.1	
12	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
13-16	.0	.0	.0	.2	.0	.0	.2	.0	.0	.0	.0	.0	.0	.0	
17-19	.0	.0	.0	.0	.2	.0	.2	.0	.0	.0	.0	.0	.0	.0	
20-22	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
23-25	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
26-32	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
33-40	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
41-48	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
49-60	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
61-70	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
71-86	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
87+	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
TOT PCT	.4	9.8	6.0	1.0	.2	.0	17.4	.1	8.5	8.8	.6	.0	.0	18.1	

HGT	W							NW							PCT	TOTAL PCT
	1-3	4-10	11-21	22-33	34-47	48+	PCT	1-3	4-10	11-21	22-33	34-47	48+	PCT		
<1	.3	.4	.0	.0	.0	.0	.7	.0	.4	.0	.0	.0	.0	.4		
1-2	.0	2.9	.4	.0	.0	.0	3.3	.2	1.3	.5	.0	.0	.0	2.1		
3-4	.0	1.2	2.7	.4	.0	.0	4.3	.0	.4	.2	.0	.0	.0	.6		
5-6	.0	.9	3.5	.2	.0	.0	4.5	.0	.1	.3	.1	.0	.0	.4		
7	.0	.2	1.3	.4	.0	.0	1.9	.0	.0	.0	.2	.0	.0	.2		
8-9	.0	.0	.6	.6	.0	.0	1.2	.0	.0	.0	.1	.0	.0	.1		
10-11	.0	.0	.0	.4	.0	.0	.4	.0	.0	.0	.1	.0	.0	.1		
12	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0		
13-16	.0	.2	.0	.0	.0	.0	.2	.0	.0	.0	.0	.0	.0	.0		
17-19	.0	.2	.0	.0	.0	.0	.2	.0	.1	.0	.0	.0	.0	.1		
20-22	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0		
23-25	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0		
26-32	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0		
33-40	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0		
41-48	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0		
49-60	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0		
61-70	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0		
71-86	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0		
87+	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0		
TOT PCT	.3	6.0	8.5	1.9	.0	.0	16.7	.2	2.3	1.1	.4	.0	.0	4.0	98.3	

WIND SPEED (KTS) VS SEA HEIGHT (FT)

HGT	0-3	4-10	11-21	22-33	34-47	48+	PCT	TOT OBS
<1	2.8	4.0	.0	.0	.0	.0	6.8	
1-2	1.1	19.4	6.0	.0	.0	.0	26.4	
3-4	.0	14.7	15.1	.6	.0	.0	30.4	
5-6	.2	3.8	16.4	1.5	.0	.0	21.9	
7	.0	.6	5.5	2.1	.0	.0	8.3	
8-9	.0	.0	1.7	1.5	.0	.0	3.2	
10-11	.0	.0	.2	1.3	.0	.0	1.5	
12	.0	.0	.0	.2	.0	.0	.4	
13-16	.0	.2	.0	.2	.0	.0	.4	
17-19	.0	.2	.0	.0	.2	.0	.4	
20-22	.0	.0	.0	.0	.0	.0	.0	
23-25	.0	.0	.0	.0	.2	.0	.2	
26-32	.0	.0	.0	.0	.0	.0	.0	
33-40	.0	.0	.0	.0	.0	.0	.0	
41-48	.0	.0	.0	.0	.0	.0	.0	
49-60	.0	.0	.0	.0	.0	.0	.0	
61-70	.0	.0	.0	.0	.0	.0	.0	
71-86	.0	.0	.0	.0	.0	.0	.0	
87+	.0	.0	.0	.0	.0	.0	.0	
TOT PCT	4.0	43.0	44.9	7.4	.6	.0	100.0	470

PERIOD: (OVER-ALL) 1949-1971

TABLE 19

PERCENT FREQUENCY OF WAVE HEIGHT (FT) VS WAVE PERIOD (SECONDS)

PERIOD (SEC)	<1	1-2	3-4	5-6	7	8-9	10-11	12	13-16	17-19	20-22	23-25	26-32	33-40	41-48	49-60	61-70	71-86	87+	TOTAL	MEAN HGT
<6	.8	5.8	8.4	3.5	2.1	.6	.3	.2	.2	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	143	4
6-7	.2	.3	5.0	7.4	4.7	3.3	1.5	1.1	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	158	6
8-9	.0	.3	1.7	4.7	5.0	6.2	2.1	1.1	1.2	.2	.2	.2	.0	.0	.0	.0	.0	.0	.0	150	8
10-11	.0	.0	.9	2.4	2.9	1.8	2.1	1.4	1.1	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	83	8
12-13	.0	.0	1.1	.6	1.7	1.2	1.1	.2	.5	.2	.2	.5	.0	.0	.0	.0	.0	.0	.0	45	9
>13	.0	.0	.0	.3	.9	.8	.6	.5	1.1	.5	.2	.0	.0	.0	.0	.0	.0	.0	.0	31	11
INDET	.6	.9	2.3	1.4	.9	.6	.6	.2	.2	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	50	5
TOTAL	10	48	127	134	120	96	55	29	27	5	3	4	0	0	0	0	0	0	0	558	8
PCT	1.5	7.3	19.3	20.4	18.2	14.6	8.4	4.4	4.1	.8	.5	.6	.0	.0	.0	.0	.0	.0	.0	100.0	

PERIOD: (PRIMARY) 1902-1970  
(OVER-ALL) 1855-1970

FEBRUARY

AREA 0014 AUSTRALIAN BIGHT SE  
30.15 132.1E

TABLE 1

PERCENT FREQUENCY OF WEATHER OCCURRENCE BY WIND DIRECTION

WIND DIR	PRECIPITATION TYPE							OTHER WEATHER PHENOMENA									
	RAIN	RAIN SHWR	DRZL	FRZG PCPN	SNOW	OTHER FRZN PCPN	HAIL	PCPN AT DB TIME	PCPN PAST HOUR	THDR LTNG	FGG WD PCPN	FGG WD PCPN PAST HR	SMOKE HAZE	SPRAY BLWG DUST	NO SIG BLWG SNOW	WEA	
N	3.5	2.6	.0	.0	.0	.0	.0	6.1	.0	4.4	5.3	.0	.9	.0	.0	85.1	
NE	.9	.9	1.5	.0	.0	.0	.0	3.3	.6	.3	3.6	.0	.9	.0	.0	91.2	
E	1.8	4.7	2.1	.0	.0	.0	.0	8.5	.0	1.3	1.9	.0	.9	.0	.0	87.6	
SE	1.6	3.0	1.9	.0	.0	.0	.0	6.5	.9	1.1	1.6	.3	1.6	.0	.0	88.2	
S	3.1	5.0	1.0	.0	.0	.0	.0	8.8	.5	1.4	2.9	.0	1.1	.3	.0	85.2	
SW	1.2	4.4	1.6	.0	.0	.0	.0	7.2	1.0	1.0	2.0	.0	.4	.0	.0	88.6	
W	3.3	3.0	2.4	.0	.0	.0	.0	8.7	2.0	.7	.7	.0	1.5	.0	.0	86.7	
NW	2.3	1.2	.0	.0	.0	.0	.0	4.1	.0	2.9	1.2	.0	.0	.0	.0	91.8	
VAR	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
CALM	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	100.0	
TOT PCT	2.1	3.6	1.5	.0	.0	.0	.0	7.1	.7	1.2	2.3	.1	1.0	.1	.0	87.8	
TOT OBS:	1554																

TABLE 2

PERCENT FREQUENCY OF WEATHER OCCURRENCE BY HOUR

HOUR (GMT)	PRECIPITATION TYPE							OTHER WEATHER PHENOMENA									
	RAIN	RAIN SHWR	DRZL	FRZG PCPN	SNOW	OTHER FRZN PCPN	HAIL	PCPN AT DB TIME	PCPN PAST HOUR	THDR LTNG	FGG WD PCPN	FGG WD PCPN PAST HR	SMOKE HAZE	SPRAY BLWG DUST	NO SIG BLWG SNOW	WEA	
00003	2.1	4.2	1.1	.0	.0	.0	.0	7.4	.2	.2	2.3	.2	1.3	.7	.0	88.2	
06009	1.3	2.6	.5	.0	.0	.0	.0	4.4	.5	.0	1.5	.0	1.8	.0	.0	91.8	
12015	2.9	3.6	1.7	.0	.0	.0	.0	8.1	.7	2.4	2.4	.0	.7	.0	.0	86.7	
18021	2.2	3.8	3.1	.0	.0	.0	.0	8.8	1.6	3.1	2.5	.0	.6	.0	.0	84.0	
TOT PCT	2.1	3.6	1.5	.0	.0	.0	.0	7.1	.7	1.3	2.2	.1	1.1	.1	.0	87.8	
TOT OBS:	1504																

TABLE 3

PERCENTAGE FREQUENCY OF WIND DIRECTION BY SPEED AND BY HOUR

WIND DIR	WIND SPEED (KNOTS)							TOTAL OBS	PCT FREQ	MEAN SPD	HOUR (GMT)							
	0-3	4-10	11-21	22-33	34-47	48+					00	03	06	09	12	15	18	21
N	.3	2.6	1.6	.1	.0	.0		4.6	10.3		4.6	7.0	3.0	.0	4.8	3.7	5.1	.0
NE	.8	4.5	4.3	.3	.0	.0		9.8	10.7		10.5	9.1	9.6	7.7	9.0	10.4	10.4	11.4
E	.8	7.3	5.6	.3	.0	.0		13.9	10.3		14.6	14.1	13.3	19.2	13.1	14.6	14.1	6.8
SE	.8	8.5	9.7	1.3	.1	.0		20.4	12.2		19.3	18.8	21.7	11.5	22.0	19.8	20.1	18.2
S	1.1	9.2	9.7	1.6	.1	*		21.7	12.1		20.7	21.2	22.2	30.8	23.7	19.3	21.2	35.4
SW	.8	7.0	6.8	2.0	.1	*		16.6	12.9		17.2	17.2	16.9	17.3	15.8	18.8	14.6	27.3
W	.6	3.9	3.6	.6	*	.0		8.7	11.7		8.8	8.2	10.2	9.6	7.6	8.7	8.8	.0
NW	.2	1.7	.9	.1	.0	.0		2.9	9.9		3.1	3.7	1.9	3.8	2.7	2.7	3.6	.0
VAR	.0	.0	.0	.0	.0	.0		.0	.0		.0	.0	.0	.0	.0	.0	.0	.0
CALM	1.3							1.3	.0		1.1	.8	1.2	.0	1.4	2.0	1.9	.0
TOT OBS	150	1068	1009	150	7	1	2395		11.5		450	366	492	13	442	202	419	11
TOT PCT	6.7	44.6	42.1	6.3	.3	*		100.0			100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0

TABLE 3A

WIND DIR	WIND SPEED (KNOTS)							TOTAL OBS	PCT FREQ	MEAN SPD	HOUR (GMT)			
	0-6	7-16	17-27	28-40	41+						00	06	12	18
N	1.3	2.5	.8	.1	.0			4.6	10.3		5.7	3.0	4.4	4.9
NE	2.4	5.9	1.5	.1	.0			9.8	10.7		9.9	9.5	9.4	10.6
E	3.2	9.0	1.7	*	.0			13.9	10.3		14.4	13.4	13.6	13.9
SE	3.3	12.4	4.1	.6	.0			20.4	12.2		19.1	21.5	21.3	20.1
S	4.1	12.4	4.6	.6	*			21.7	12.1		20.9	22.4	22.3	21.6
SW	3.3	8.3	4.1	.6	.1			16.6	12.9		17.2	16.9	16.7	14.9
W	2.2	4.2	2.3	.1	*			8.7	11.7		8.5	10.2	8.0	8.6
NW	1.1	1.3	.3	.1	.0			2.9	9.9		3.4	1.9	2.7	3.5
VAR	.0	.0	.0	.0	.0			.0	.0		.0	.0	.0	.0
CALM	1.3							1.3	.0		1.0	1.2	1.6	1.9
TOT OBS	533	1340	463	56	3	2395			11.5		816	505	644	430
TOT PCT	22.3	55.9	19.3	2.3	.1			100.0			100.0	100.0	100.0	100.0

PERIOD: (PRIMARY) 1902-1970  
(OVER-ALL) 1855-1970

FEBRUARY

AREA 0014 AUSTRALIAN BIGHT SE  
36.1S 132.1E

TABLE 4

PERCENTAGE FREQUENCY OF WIND SPEED BY HOUR (GMT)

HOUR	CALM	1-3	4-10	WIND SPEED (KNOTS)				48+	MEAN	PCT FREQ	TOTAL OBS
				11-21	22-33	34-47					
0000Z	1.0	5.8	43.8	42.6	6.5	.4	.0	.0	11.5	100.0	816
0600Z	1.2	4.8	43.2	43.6	6.7	.4	.2	.0	11.9	100.0	505
1200Z	1.6	5.4	46.4	40.4	6.1	.2	.0	.0	11.4	100.0	644
1800Z	1.9	5.1	45.1	42.1	5.6	.2	.0	.0	11.3	100.0	430
TOT	32	128	1068	1009	150	7	1	11.5			2395
PCT	1.3	5.3	44.6	42.1	6.3	.3	*		100.0		

TABLE 5

PCT FREQ OF TOTAL CLOUD AMOUNT (EIGHTHS)  
BY WIND DIRECTION

WIND DIR	0-2	3-4	5-7	8 & OBSCD	TOTAL OBS	MEAN CLOUD COVER
N	.9	.7	.9	.6	4.4	
NE	3.5	1.2	3.3	2.0	4.5	
E	4.0	1.2	4.4	4.2	4.9	
SE	4.2	3.0	7.2	8.6	5.6	
S	1.3	3.3	10.8	7.9	6.2	
SW	1.6	4.2	6.0	3.0	5.2	
W	1.5	1.3	2.7	1.9	5.0	
NW	.9	.3	1.2	.6	4.5	
VAR	.0	.0	.0	.0	.0	
CALM	.6	.2	.4	.0	3.0	
TOT OBS	152	127	306	236	821	5.3
TOT PCT	18.5	15.5	37.3	28.7	100.0	

TABLE 6

PERCENTAGE FREQUENCY OF CEILING HEIGHTS (FT, NH >4/8)  
AND OCCURRENCE OF NH <5/8 BY WIND DIRECTION

	000	150	300	600	1000	2000	3500	5000	6500	8000+	NH <5/8	TOTAL
	149	299	599	999	1999	3499	4999	6499	7999		ANY HGT	OBS
N	.0	.0	.0	.3	.3	.3	.0	.1	.0	.2	1.6	
NE	.0	.0	.1	.5	2.4	.6	.4	.6	.2	.1	5.5	
E	.0	.0	.2	.8	2.3	1.1	1.3	.3	.4	.2	7.1	
SE	.0	.0	.5	2.3	3.8	4.2	2.4	.4	.2	.2	9.1	
S	.2	.0	.2	3.0	5.3	4.2	3.0	.2	.1	.1	6.8	
SW	.0	.0	.2	.9	2.7	1.6	.5	.4	.2	.0	8.4	
W	.0	.0	.0	.7	1.2	.9	.7	.0	.0	.1	3.8	
NW	.0	.0	.0	.1	.5	.2	.3	.1	.0	.1	1.7	
VAR	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
CALM	.0	.0	.0	.1	.0	.0	.0	.1	.0	.0	1.0	
TOT OBS	2	0	10	71	153	108	70	19	10	9	369	821
TOT PCT	.2	.0	1.2	8.6	18.6	13.2	8.5	2.3	1.2	1.1	44.9	100.0

TABLE 7

CUMULATIVE PCT FREQ OF SIMULTANEOUS OCCURRENCE  
OF CEILING HEIGHT (NH >4/8) AND VSBY (NM)

CEILING (FEET)	VSBY (NM)							
	>10	>5	>2	>1	>1/2	>1/4	>50YD	>0
OR >A500	1.9	2.3	2.3	2.3	2.3	2.3	2.3	2.3
OR >A000	3.6	4.5	4.5	4.5	4.5	4.5	4.5	4.5
OR >A500	11.1	13.0	13.0	13.0	13.0	13.0	13.0	13.0
OR >A000	22.8	26.5	26.6	26.6	26.6	26.6	26.6	26.6
OR >A000	40.0	44.6	45.0	45.0	45.0	45.0	45.0	45.0
OR >A00	46.8	52.9	53.6	53.6	53.6	53.6	53.6	53.6
OR >A00	47.6	53.9	54.7	54.7	54.7	54.8	54.8	54.8
OR >A00	47.6	53.9	54.7	54.7	54.7	54.8	54.8	54.8
OR >A0	47.6	53.9	54.7	54.8	54.8	55.0	55.0	55.0
TOTAL	399	452	458	459	459	461	461	461

TOTAL NUMBER OF OBS: 838

PCT FREQ NH <5/8: 45.0

TABLE 7A

PERCENTAGE FREQ OF LOW CLOUDS (EIGHTHS)

	0	1	2	3	4	5	6	7	8	OBSCD	TOTAL OBS
	4.9	9.1	9.6	9.5	7.8	6.7	10.4	14.1	25.7	.1	923



## FEBRUARY

PERIOD: (PRIMARY) 1902-1970  
(OVER-ALL) 1855-1970AREA 0014 AUSTRALIAN BIGHT SE  
36.1S 132.1E

TABLE 8

PERCENT FREQ OF WIND DIRECTION VS OCCURRENCE OR NON-OCCURRENCE OF  
PRECIPITATION WITH VARYING VALUES OF VISIBILITY

VISBY (NM)		N	NE	E	SE	S	SW	W	NW	VAR	CALM	PCT	TOTAL OBS
<1/2	PCP	.0	.0	.0	.1	.0	.0	.0	.0	.0	.0	.1	
	NO PCP	.0	.2	.0	.0	.1	.1	.1	.0	.0	.0	.4	
	TOT %	.0	.2	.0	.1	.1	.1	.1	.0	.0	.0	.5	
1/2<1	PCP	.0	.0	.0	.0	.1	.0	.1	.0	.0	.0	.1	
	NO PCP	*	.2	.2	.2	.2	.1	.0	*	.0	.0	1.0	
	TOT %	*	.2	.2	.2	.3	.1	.1	*	.0	.0	1.2	
1<2	PCP	.0	.0	.0	.0	.1	.1	.0	.0	.0	.0	.1	
	NO PCP	*	*	.1	.1	.1	.1	.1	.0	.0	.0	.5	
	TOT %	*	*	.1	.1	.2	.1	.1	.0	.0	.0	.6	
2<5	PCP	.0	.0	*	*	.2	.1	.1	.0	.0	.0	.4	
	NO PCP	*	.0	.0	.1	.2	.1	.1	*	.0	.0	.5	
	TOT %	*	.0	*	.1	.3	.2	.1	*	.0	.0	.8	
5<10	PCP	.2	.2	1.0	.9	1.4	1.0	.5	.1	.0	.0	3.1	
	NO PCP	1.5	3.7	4.3	5.6	7.5	6.3	3.6	.9	.0	.1	34.7	
	TOT %	1.6	3.9	5.3	7.5	9.0	7.2	4.1	.9	.0	.1	39.8	
10+	PCP	.1	.1	.2	.4	.4	*	.1	*	.0	.0	1.3	
	NO PCP	1.9	6.1	7.9	12.3	12.7	8.3	4.1	1.7	.0	.6	55.8	
	TOT %	1.9	6.3	8.1	12.7	13.1	8.4	4.2	1.8	.0	.6	57.1	
TOT OBS													
TOT PCT													
		3.7	10.6	13.8	20.7	23.0	16.1	8.7	2.8	.0	.8	100.0	1554

TABLE 9

PERCENT FREQ OF WIND DIRECTION VS WIND SPEED  
WITH VARYING VALUES OF VISIBILITY

VISBY (NM)	SPD KTS	N	NE	E	SE	S	SW	W	NW	VAR	CALM	PCT	TOTAL OBS
<1/2	0-3	.0	.0	.0	.0	.0	*	*	.0	.0	.0	.1	
	4-10	.0	.1	.0	.0	.1	.0	.0	.0	.0	.0	.2	
	11-21	.0	.1	.0	.0	.0	*	*	.0	.0	.0	.1	
	22+	.0	.0	.0	.1	.0	.0	.0	.0	.0	.0	.1	
	TOT %	.0	.2	.0	.1	.1	.1	.1	.0	.0	.0	.4	
1/2<1	0-3	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
	4-10	*	.1	.1	.2	.1	.0	.0	*	.0	.0	.6	
	11-21	.0	*	.1	*	.1	.1	.1	.0	.0	.0	.4	
	22+	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
	TOT %	*	.1	.2	.2	.3	.1	.1	*	.0	.0	1.1	
1<2	0-3	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
	4-10	.0	.0	.0	.0	.1	.1	.1	.0	.0	.0	.1	
	11-21	*	*	.1	.1	.1	.1	.1	.0	.0	.0	.5	
	22+	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
	TOT %	*	*	.1	.1	.2	.1	.1	.0	.0	.0	.6	
2<5	0-3	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
	4-10	*	.1	.1	*	.1	*	*	*	.0	.0	.4	
	11-21	.0	.0	*	.1	.1	.0	.1	.0	.0	.0	.4	
	22+	.0	.0	.0	.0	.1	.2	.0	.0	.0	.0	.3	
	TOT %	*	.1	.1	.1	.3	.2	.1	*	.0	.0	1.0	
5<10	0-3	*	.5	.2	.2	.1	.2	.1	.1	.0	.1	1.6	
	4-10	.9	1.3	2.0	2.6	2.8	2.5	1.3	.6	.0	.0	14.0	
	11-21	.5	1.7	2.5	3.6	4.3	2.8	2.0	.2	.0	.0	17.7	
	22+	.1	.2	.1	.6	1.2	1.1	.4	.0	.0	.0	3.7	
	TOT %	1.5	3.7	4.9	6.9	8.5	6.7	3.8	1.0	.0	.1	37.1	
10+	0-3	.2	.2	.4	.5	.9	.4	.3	.1	.0	.8	3.7	
	4-10	1.7	3.2	4.8	6.0	6.0	3.8	2.9	1.3	.0	.0	29.6	
	11-21	.7	2.8	2.9	5.7	5.9	3.9	1.6	.6	.0	.0	24.1	
	22+	*	.1	.1	.8	.4	.6	.2	.1	.0	.0	2.4	
	TOT %	2.6	6.3	8.3	12.9	13.2	8.8	4.9	2.1	.0	.8	59.9	
TOT OBS													
TOT PCT													
		4.2	10.4	13.5	20.3	22.5	16.0	9.2	3.1	.0	.9	100.0	1709

## FEBRUARY

PERIOD: (PRIMARY) 1902-1970  
(OVER-ALL) 1855-1970

AREA 0014 AUSTRALIAN BIGHT SE  
36.15 132.1F

TABLE 10

PERCENT FREQUENCY OF CEILING HEIGHTS (FEET, NH >4/8) AND  
OCCURRENCE OF NH <5/8 BY HOUR

HOUR (GMT)	000 149	150 299	300 599	600 999	1000 1999	2000 3499	3500 4999	5000 6499	6500 7999	8000+	TOTAL	NH <5/8 ANY HGT	TOTAL OBS
00003	.4	.0	.8	7.2	21.9	15.6	8.0	2.1	.8	.8	57.8	42.2	237
06009	.0	.0	.8	4.0	14.4	13.2	9.6	2.0	1.2	1.6	46.8	53.2	250
12015	.0	.0	2.1	11.4	16.1	11.9	7.3	2.1	2.1	1.0	53.9	46.1	193
18021	.6	.0	1.1	12.9	19.7	11.8	7.9	2.8	.6	.6	57.9	42.1	178
TOT	2	0	10	72	154	114	71	19	10	9	461	397	858
PCT	.2	.0	1.2	8.4	17.9	13.3	8.3	2.2	1.2	1.0	53.7	46.3	100.0

TABLE 11

PERCENT FREQUENCY VSBY (NM) BY HOUR

HOUR (GMT)	<1/2	1/2<1	1<2	2<5	5<10	10+	TOTAL OBS
00003	.4	1.1	.8	.6	41.6	55.6	527
06009	.2	1.0	1.0	.7	31.6	65.5	415
12015	.2	1.1	.4	1.7	42.7	53.9	473
18021	.9	.9	.6	.9	32.3	64.5	344
TOT	7	18	12	17	663	1042	1759
PCT	.4	1.0	.7	1.0	37.7	59.2	100.0

TABLE 12

CUMULATIVE PCT FREQ OF RANGES OF VSBY (NM) AND/OR  
CEILING HGT (FEET, NH >4/8), BY HOUR

HOUR (GMT)	<150 <50YD	<600 <1	<1000 <5	1000+ AND 5+	NH <5/8 AND 5+	TOTAL OBS
00003	.4	1.3	8.6	50.4	40.9	232
06009	.0	.8	5.3	43.2	51.4	243
12015	.0	2.1	15.9	40.2	43.9	189
18021	.6	2.3	16.1	43.7	40.2	174
TOT	2	13	91	374	373	838
PCT	.2	1.6	10.9	44.6	44.5	100.0

TABLE 13

PERCENT FREQUENCY OF RELATIVE HUMIDITY BY TEMP

TEMP F	0-29	30-39	40-49	50-59	60-69	70-79	80-89	90-100	TOTAL OBS	PCT FREQ
80/84	.0	.1	.0	.0	.0	.0	.0	.0	1	.1
75/79	.0	.0	.0	.0	.1	.0	.0	.0	1	.1
70/74	.0	.0	.0	.1	.6	1.2	1.0	.4	33	3.3
65/69	.0	.0	.1	.9	4.4	7.6	9.8	5.4	283	28.1
60/64	.0	.0	.0	2.0	13.8	16.1	17.5	7.3	570	56.7
55/59	.0	.0	.0	.5	3.3	4.1	2.9	.9	117	11.6
50/54	.0	.0	.0	.0	.0	.1	.0	.0	1	.1
TOTAL	0	1	1	3*	223	292	314	140	1006	100.0
PCT	.0	.1	.1	3.5	22.2	29.0	31.2	13.9		

TABLE 14

PERCENT FREQUENCY OF WIND DIRECTION BY TEMP

	N	NE	E	SE	S	SW	W	NW	VAR	CALM
80/84	.0	.0	.0	.0	.1	*	.0	.0	.0	.0
75/79	.0	.1	.0	.0	.0	.0	.0	.0	.0	.0
70/74	.3	.7	.8	.7	.0	.2	.5	.0	.0	.0
65/69	1.2	5.3	5.4	4.9	3.4	3.5	2.2	1.4	.0	.6
60/64	1.6	4.4	6.1	14.0	14.3	9.5	5.0	1.1	.0	.6
55/59	.0	.6	.5	2.0	5.6	2.7	.1	.1	.0	.0
50/54	.0	.0	.0	.0	.1	.0	.0	.0	.0	.0
TOTAL	3.2	11.2	12.9	21.5	23.6	15.9	7.9	2.6	.0	1.2

TABLE 15

MEANS, EXTREMES AND PERCENTILES OF TEMP (DEG F) BY HOUR

HOUR (GMT)	MAX	99%	95%	50%	5%	1%	MIN	MEAN	TOTAL OBS
00003	78	73	70	64	59	56	51	63.9	799
06009	84	73	70	65	60	58	57	64.7	498
12015	75	71	67	62	58	56	55	62.5	650
18021	71	68	66	62	57	55	54	61.7	438
TOT	84	72	69	63	58	56	51	63.3	2385

TABLE 16

PERCENT FREQUENCY OF RELATIVE HUMIDITY BY HOUR

HOUR (GMT)	0-29	30-59	60-69	70-79	80-89	90-100	MEAN	TOTAL OBS
00003	.0	3.2	22.1	28.8	32.6	13.3	78	285
06009	.0	7.0	26.0	31.9	26.0	9.2	75	273
12015	.0	1.6	22.7	27.9	31.9	15.9	79	251
18021	.0	2.7	16.3	29.0	33.9	18.1	80	221
TOT	0	38	227	303	319	143	78	1030

## FEBRUARY

PERIOD: (PRIMARY) 1902-1970  
(OVER-ALL) 1855-1970

TABLE 17

AREA 0014 AUSTRALIAN BIGHT SE  
36.15 132.1EPCT FREQ OF AIR TEMPERATURE (DEG F) AND THE OCCURRENCE OF FOG (WITHOUT PRECIPITATION)  
VS AIR-SEA TEMPERATURE DIFFERENCE (DEG F)

AIR-SEA TMP DIF	49 52	53 56	57 60	61 64	65 68	69 72	73 76	77 80	81 84	TOT FOG	W FOG	WD FOG
14/16	.0	.0	.0	.0	.0	.0	.1	.0	.0	1	.0	.1
11/13	.0	.0	.0	.0	.1	.0	.0	.0	.0	1	.0	.1
9/10	.0	.0	.0	.0	.1	.0	.1	.0	.0	2	.0	.1
7/8	.0	.0	.0	.0	.4	.1	.1	.0	.1	9	.0	.6
6	.0	.0	.0	.1	.0	.4	.1	.0	.0	7	.0	.5
5	.0	.0	.0	.1	.4	.5	.0	.0	.0	13	.0	.9
4	.0	.0	.0	.1	.9	.7	.1	.0	.0	26	.1	1.8
3	.0	.0	.0	.4	1.5	.6	.0	.0	.0	36	.0	2.5
2	.0	.0	.1	1.6	4.2	1.3	.0	.0	.0	101	.3	6.9
1	.0	.0	.1	3.3	5.0	.6	.0	.0	.0	127	.1	8.8
0	.0	.0	.6	10.4	7.1	.3	.0	.0	.0	259	.7	17.6
-1	.0	.0	.1	1.1	10.8	4.0	.2	.0	.0	227	.3	15.8
-2	.0	.0	.3	10.5	2.2	.1	.0	.0	.0	224	.3	15.6
-3	.0	.0	.4	7.5	.6	.0	.0	.0	.0	174	.1	12.2
-4	.0	.1	3.3	3.3	.2	.0	.0	.0	.0	97	.1	6.7
-5	.0	.1	2.3	1.8	.1	.0	.0	.0	.0	62	.1	4.2
-6	.0	.1	1.0	.4	.0	.0	.0	.0	.0	20	.1	1.3
-7/-8	.0	.4	.6	.4	.0	.0	.0	.0	.0	20	.0	1.4
-9/-10	.1	.0	.4	.0	.0	.0	.0	.0	.0	6	.0	.4
-11/-13	.0	.1	.1	.0	.0	.0	.0	.0	.0	2	.0	.1
TOTAL	1	12	237	713	376	69	5	0	1	1414	32	138.2
PCT	.1	.8	16.8	50.4	26.6	4.9	.4	.0	.1	100.0	2.3	97.7

PERIOD: (OVER-ALL) 1963-1970

TABLE 18

PCT FREQ OF WIND SPEED (KTS) AND DIRECTION VERSUS SEA HEIGHTS (FT)

HGT	1-3	4-10	11-21	22-33	34-47	48+	PCT	1-3	4-10	11-21	22-33	34-47	48+	PCT
<1	.0	.4	.0	.0	.0	.0	.4	.4	.7	.0	.0	.0	.0	1.2
1-2	.0	1.6	.0	.0	.0	.0	1.6	.0	2.7	.7	.0	.0	.0	3.5
3-4	.0	.5	.3	.0	.0	.0	.8	.0	2.4	2.2	.0	.0	.0	4.6
5-6	.0	.2	.7	.0	.0	.0	.9	.0	.5	4.2	.0	.0	.0	4.7
7	.0	.0	.0	.0	.0	.0	.0	.0	.0	.7	.0	.0	.0	.7
8-9	.0	.0	.0	.0	.0	.0	.0	.0	.0	.2	.0	.0	.0	.2
10-11	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
12	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
13-16	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
17-19	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
20-22	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
23-25	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
26-32	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
33-40	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
41-48	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
49-60	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
61-70	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
71-86	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
87+	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
TOT PCT	.0	2.8	1.1	.0	.0	.0	3.8	.4	6.3	8.0	.0	.0	.0	14.8

HGT	1-3	4-10	11-21	22-33	34-47	48+	PCT	1-3	4-10	11-21	22-33	34-47	48+	PCT
<1	.0	.8	.0	.0	.0	.0	.8	.4	.4	.0	.0	.0	.0	.9
1-2	.0	3.7	1.9	.0	.0	.0	5.6	.4	4.9	1.8	.0	.0	.0	7.2
3-4	.0	2.3	2.3	.0	.0	.0	4.6	.1	3.5	3.7	.2	.0	.0	7.5
5-6	.0	.4	1.7	.0	.0	.0	2.1	.0	.5	3.5	.0	.0	.0	4.0
7	.0	.0	1.0	.2	.0	.0	1.2	.0	.0	1.2	.3	.0	.0	1.4
8-9	.0	.0	.2	.0	.0	.0	.2	.0	.0	.9	.3	.0	.0	1.2
10-11	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.2	.0	.0	.2
12	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.1	.0	.0	.1
13-16	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.1	.2	.0	.3
17-19	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
20-22	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
23-25	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
26-32	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
33-40	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
41-48	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
49-60	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
61-70	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
71-86	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
87+	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
TOT PCT	.0	7.2	7.1	.2	.0	.0	14.4	.9	9.3	11.2	1.1	.2	.0	22.8

PERIOD: (OVER-ALL) 1963-1970

FEBRUARY

AREA 0014 AUSTRALIAN RIGHT SE  
36.15 132.1E

TABLE 18 (CONT)

PCT FREQ OF WIND SPEED (KTS) AND DIRECTION VERSUS SEA HEIGHTS (FT)

HGT	S							SW							PCT
	1-3	4-10	11-21	22-33	34-47	48+	PCT	1-3	4-10	11-21	22-33	34-47	48+	PCT	
<1	.8	.0	.0	.0	.0	.0	.8	.1	.2	.0	.0	.0	.0	.3	
1-2	.4	5.0	.6	.0	.0	.0	6.0	.2	2.8	.9	.0	.0	.0	4.0	
3-4	.2	3.0	4.6	.0	.0	.0	7.7	.0	1.4	2.8	.0	.0	.0	4.2	
5-6	.0	.9	3.7	.0	.0	.0	4.6	.0	.8	.6	.0	.0	.0	1.3	
7	.0	.2	.6	.4	.0	.0	1.2	.0	.0	.5	.5	.0	.0	1.0	
8-9	.0	.2	.7	.2	.0	.0	1.1	.0	.0	.2	.0	.0	.0	.2	
10-11	.0	.0	.4	.4	.0	.0	.8	.0	.0	.1	.1	.0	.0	.2	
12	.0	.0	.0	.3	.0	.0	.3	.0	.0	.0	.1	.0	.0	.1	
13-16	.0	.0	.0	.2	.0	.0	.2	.0	.0	.0	.0	.0	.0	.0	
17-19	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
20-22	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
23-25	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
26-32	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
33-40	.0	.0	.0	.0	.0	.2	.2	.0	.0	.0	.0	.0	.1	.1	
41-48	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
49-60	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
61-70	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
71-86	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
87+	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
TOT PCT	1.4	9.4	10.5	1.4	.0	.2	22.9	.3	5.3	5.0	.7	.0	.1	11.4	

HGT	W							NW							PCT	TOTAL PCT
	1-3	4-10	11-21	22-33	34-47	48+	PCT	1-3	4-10	11-21	22-33	34-47	48+	PCT		
<1	.2	1.8	.0	.0	.0	.0	2.0	.2	.0	.0	.0	.0	.0	.2		
1-2	.0	1.1	.2	.0	.0	.0	1.3	.0	.5	.2	.0	.0	.0	.7		
3-4	.0	.7	.4	.0	.0	.0	1.1	.0	.5	.2	.0	.0	.0	.7		
5-6	.0	.0	.6	.0	.0	.0	.6	.0	.0	.0	.0	.0	.0	.0		
7	.0	.0	.4	.0	.0	.0	.7	.0	.0	.2	.2	.0	.0	.4		
8-9	.0	.0	.0	.0	.0	.0	.0	.0	.0	.2	.0	.0	.0	.0		
10-11	.0	.0	.0	.4	.0	.0	.4	.0	.0	.2	.0	.0	.0	.2		
12	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0		
13-16	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0		
17-19	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0		
20-22	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0		
23-25	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0		
26-32	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0		
33-40	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0		
41-48	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0		
49-60	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0		
61-70	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0		
71-86	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0		
87+	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0		
TOT PCT	.2	3.5	1.7	.6	.0	.0	6.0	.2	1.0	.9	.2	.0	.0	2.3	98.4	

WIND SPEED (KTS) VS SEA HEIGHT (FT)

HGT	0-3	4-10	11-21	22-33	34-47	48+	PCT	TOT OBS
<1	4.6	4.4	.0	.0	.0	.0	9.0	
1-2	1.8	21.9	6.4	.0	.0	.0	30.0	
3-4	.2	14.0	16.2	.2	.0	.0	30.7	
5-6	.0	3.3	14.7	.0	.0	.0	18.0	
7	.0	.2	4.6	1.8	.0	.0	6.6	
8-9	.0	.2	2.2	.4	.0	.0	2.9	
10-11	.0	.0	.7	1.1	.0	.0	1.8	
12	.0	.0	.0	.4	.0	.0	.4	
13-16	.0	.0	.0	.2	.2	.0	.4	
17-19	.0	.0	.0	.0	.0	.0	.0	
20-22	.0	.0	.0	.0	.0	.0	.0	
23-25	.0	.0	.0	.0	.0	.0	.0	
26-32	.0	.0	.0	.0	.0	.0	.0	
33-40	.0	.0	.0	.0	.0	.2	.2	
41-48	.0	.0	.0	.0	.0	.0	.0	
49-60	.0	.0	.0	.0	.0	.0	.0	
61-70	.0	.0	.0	.0	.0	.0	.0	
71-86	.0	.0	.0	.0	.0	.0	.0	
87+	.0	.0	.0	.0	.0	.0	.0	
TOT PCT	6.6	44.1	44.7	4.2	.2	.2	100.0	456

PERIOD: (OVER-ALL) 1949-1970

TABLE 19

PERCENT FREQUENCY OF WAVE HEIGHT (FT) VS WAVE PERIOD (SECONDS)

PERIOD (SEC)	<1	1-2	3-4	5-6	7	8-9	10-11	12	13-16	17-19	20-22	23-25	26-32	33-40	41-48	49-60	61-70	71-86	87+	TOTAL	MEAN HGT
<6	1.5	5.4	5.9	4.5	2.8	.3	.3	.1	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	142	4
6-7	.0	.6	3.1	9.2	7.3	1.8	.9	.3	.9	.3	.0	.0	.0	.0	.0	.0	.0	.0	.0	165	6
8-9	.0	.0	1.3	4.8	5.6	5.4	1.9	.6	.4	.6	.1	.0	.1	.0	.0	.0	.0	.0	.0	143	8
10-11	.0	.0	1.2	1.8	3.5	3.2	1.8	.9	1.0	.3	.1	.1	.1	.0	.0	.0	.0	.0	.0	96	8
12-13	.0	.0	.4	.7	1.6	1.2	1.0	.3	.4	.3	.4	.1	.0	.0	.0	.0	.0	.0	.0	45	9
>13	.0	.0	.0	.3	.7	.9	.1	.6	.6	.0	.0	.0	.0	.1	.0	.0	.0	.0	.0	23	10
INDET	.6	1.9	2.2	1.6	1.8	.9	.1	.0	.9	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	55	5
TOTAL	14	54	96	157	159	93	42	19	29	10	5	2	2	1	0	0	0	0	0	583	7
PCT	2.0	7.9	14.1	23.0	23.3	13.6	6.1	2.8	4.2	1.5	.7	.3	.3	.1	.0	.0	.0	.0	.0	100.5	

PERIOD: (PRIMARY) 1911-1971  
(OVER-ALL) 1858-1971

MARCH

AREA 0014 AUSTRALIAN BIGHT SE  
36.15 132.1E

TABLE 1

PERCENT FREQUENCY OF WEATHER OCCURRENCE BY WIND DIRECTION

WIND DIR	PRECIPITATION TYPE							OTHER WEATHER PHENOMENA							
	RAIN	RAIN SHWR	ORZL	FRZG PCPN	SNOW	OTHER FRZN PCPN	HAIL	PCPN AT DB TIME	PCPN PAST HOUR	THDR LTNG	FOG WD PCPN	FOG WD PCPN PAST HR	SMOKE HAZE	SPRAY BLWG DUST	NO SIG WEA
N	1.4	.0	1.1	.0	.0	.0	.0	2.5	2.1	4.2	3.2	.7	.0	.0	88.0
NE	1.5	.3	.3	.0	.0	.0	.5	2.6	1.0	2.8	1.5	.0	1.5	.0	91.5
E	.5	.5	1.0	.0	.0	.0	.0	2.0	.5	1.0	1.5	.0	.0	.0	95.1
SE	.9	3.4	.6	.0	.0	.0	.0	4.9	2.1	.4	1.7	.0	.0	.0	90.8
S	1.2	3.0	.7	.0	.0	.0	.0	4.5	.4	.0	2.0	.0	.0	.0	93.2
SW	3.0	3.3	1.0	.0	.0	.0	.1	7.3	3.0	1.0	.2	.0	.1	.0	88.8
W	2.4	9.0	.8	.0	.0	.0	.3	12.6	3.8	2.0	.4	.0	.7	.0	80.5
NW	2.7	4.5	1.7	.0	.0	.0	.0	7.9	.0	3.3	.4	.0	2.5	.0	86.0
VAR	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
CALM	.0	.0	3.7	.0	.0	.0	.0	3.7	.0	3.7	3.7	.0	7.4	.0	81.5
TOT PCT	1.6	3.2	.9	.0	.0	.0	.1	5.7	1.7	1.6	1.3	.1	.6	.0	89.3
TOT OBS:	1707														

TABLE 2

PERCENT FREQUENCY OF WEATHER OCCURRENCE BY HOUR

HOUR (GMT)	PRECIPITATION TYPE							OTHER WEATHER PHENOMENA							
	RAIN	RAIN SHWR	ORZL	FRZG PCPN	SNOW	OTHER FRZN PCPN	HAIL	PCPN AT DB TIME	PCPN PAST HOUR	THDR LTNG	FOG WD PCPN	FOG WD PCPN PAST HR	SMOKE HAZE	SPRAY BLWG DUST	NO SIG WEA
0000	1.7	4.7	.9	.0	.0	.0	.0	7.3	1.1	.8	.8	.0	.2	.0	89.8
0600	1.0	2.7	.2	.0	.0	.0	.2	4.1	2.2	1.0	1.7	.0	1.0	.0	90.4
1200	2.0	2.2	1.1	.0	.0	.0	.0	5.2	1.7	2.0	1.3	.0	.9	.0	89.3
1800	2.2	2.5	1.4	.0	.0	.0	.3	6.1	1.9	3.6	1.9	.3	.3	.0	86.6
TOT PCT	1.7	3.1	.9	.0	.0	.0	.1	5.8	1.7	1.7	1.4	.1	.6	.0	89.2
TOT OBS:	1764														

TABLE 3

PERCENTAGE FREQUENCY OF WIND DIRECTION BY SPEED AND BY HOUR

WIND DIR	WIND SPEED (KNOTS)							TOTAL OBS	PCT FREQ	MEAN SPD	HOUR (GMT)							
	0-3	4-10	11-21	22-33	34-47	48+					00	03	06	09	12	15	18	21
N	.7	4.3	2.7	.4	.0	.0		8.0	10.2		9.1	9.0	8.0	.0	6.7	6.4	8.4	.0
NE	.5	5.6	4.2	.3	.0	.0		10.6	10.7		11.6	8.9	11.6	11.1	9.7	10.0	11.3	.0
E	.9	7.4	4.4	.4	.0	.0		13.1	10.0		11.4	14.7	13.1	.0	12.1	17.4	13.5	.0
SE	.9	8.2	5.0	.4	.2	.0		14.7	10.3		12.9	17.8	13.8	33.3	15.5	17.2	13.2	22.2
S	.5	8.1	6.0	1.0	.2	.0		15.9	11.7		13.8	15.7	16.1	.0	18.8	11.8	17.1	15.7
SW	.3	6.4	6.3	2.1	.5	.1		15.7	14.4		15.8	15.2	16.1	30.6	15.7	15.6	15.0	33.3
W	.7	4.0	5.6	2.2	.5	.0		13.0	14.7		14.5	10.1	13.8	22.2	13.3	12.6	12.0	13.9
NW	.3	3.8	2.0	.7	.0	.0		6.8	11.5		9.1	6.5	6.5	2.8	5.5	6.4	6.2	2.8
VAR	.0	.0	.0	.0	.0	.0		.0	.0		.0	.0	.0	.0	.0	.0	.0	.0
CALM	2.2							2.2	.0		1.9	2.1	1.0	.0	2.7	2.6	3.3	11.1
TOT OBS	178	1214	916	191	34	3	2536		11.6		530	330	520	9	484	195	459	9
TOT PCT	7.0	47.9	36.1	7.5	1.3	.1		100.0			100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0

TABLE 3A

WIND DIR	WIND SPEED (KNOTS)							TOTAL OBS	PCT FREQ	MEAN SPD	HOUR (GMT)							
	0-6	7-16	17-27	28-40	41+						00	03	06	09	12	15	18	21
N	2.3	4.5	1.2	.0	.0			8.0	10.2		9.0	7.8	6.6	8.3				
NE	2.4	6.7	1.5	.0	.0			10.6	10.7		10.5	11.6	9.8	11.1				
E	2.8	7.6	1.6	.1	.0			13.1	10.0		12.7	12.9	13.7	13.2				
SE	4.1	8.9	1.4	.2	.1			14.7	10.3		14.8	14.2	16.0	13.4				
S	3.8	8.9	2.6	.6	.1			15.9	11.7		14.5	15.8	16.8	17.1				
SW	2.7	7.5	4.1	1.3	.2			15.7	14.4		15.6	16.4	15.7	15.3				
W	2.3	5.6	4.0	1.0	.1			13.0	14.7		12.8	13.9	13.1	12.0				
NW	1.8	3.2	1.5	.2	.0			6.8	11.5		8.1	6.5	5.8	6.1				
VAR	.0	.0	.0	.0	.0			.0	.0		.0	.0	.0	.0				
CALM	2.2							2.2	.0		2.0	.9	2.7	3.4				
TOT OBS	642	1338	456	89	11	2536			11.6		880	529	679	468				
TOT PCT	25.3	52.8	18.0	3.5	.4			100.0			100.0	100.0	100.0	100.0				



MARCH

PERIOD: (PRIMARY) 1911-1971  
(OVER-ALL) 1858-1971

AREA 0014 AUSTRALIAN BIGHT SF  
36.15 132.1E

TABLE 4

PERCENTAGE FREQUENCY OF WIND SPEED BY HOUR (GMT)

HOUR	CALM	1-3	4-10	WIND SPEED (KNOTS)			48+	MEAN	PCT FREQ	TOTAL OBS
				11-21	22-33	34-47				
07003	2.0	5.0	49.9	34.8	7.1	1.3	.0	11.3	100.0	860
09009	.9	4.5	48.0	35.9	9.5	.9	.2	12.0	100.0	529
12015	2.7	5.3	47.4	35.8	7.2	1.3	.3	11.5	100.0	679
18021	3.4	4.1	44.7	39.3	6.6	1.9	.0	11.8	100.0	468
TOT	56	122	1214	916	191	34	3	11.6		2536
PCT	2.2	4.8	47.9	36.1	7.5	1.3	.1	100.0		

TABLE 5

PCT FREQ OF TOTAL CLOUD AMOUNT (EIGHTHS)  
BY WIND DIRECTION

WIND DIR	0-2	3-4	5-7	8 & OBS	TOTAL OBS	MEAN CLOUD COVER
N	2.7	1.4	2.8	1.3		4.2
NE	4.2	2.0	3.6	2.3		4.2
E	2.1	1.6	3.1	3.2		5.2
SE	2.5	1.2	3.5	4.6		5.6
S	2.6	2.4	7.2	3.9		5.4
SW	1.9	3.5	7.0	3.7		5.4
W	2.4	2.6	6.3	4.1		5.3
NW	1.4	1.5	3.5	1.4		5.0
VAR	.0	.0	.0	.0		.0
CALM	.3	.1	.8	1.1		6.1
TOT OBS	207	168	387	261	1023	5.1
TOT PCT	20.2	16.4	37.8	25.5	100.0	

TABLE 6

PERCENTAGE FREQUENCY OF CEILING HEIGHTS (FT, NH >4/8)  
AND OCCURRENCE OF NH <5/8 BY WIND DIRECTION

WIND DIR	0-2	3-4	5-7	8 & DBSCB	TOTAL OBS	MEAN	CLOUD COVER	000 149	150 299	300 599	600 999	1000 1999	2000 3499	3500 4999	5000 6499	6500 7999	8000+	NH <5/8 ANY HGT	TOTAL OBS
N	2.7	1.4	2.8	1.3		4.2		.0	.0	.1	.4	1.1	.6	.5	.3	.0	.2	5.2	
NE	4.2	2.0	3.4	2.3		4.2		.0	.0	.1	.7	1.7	.9	.5	.5	.2	.1	7.3	
E	2.1	1.6	3.1	3.2		5.2		.0	.0	.0	.8	1.5	1.6	1.0	.4	.0	.1	4.6	
SE	2.5	1.2	3.5	4.6		5.6		.0	.0	.1	.7	2.9	1.8	1.0	.5	.0	.0	4.9	
S	2.6	2.4	7.3	3.9		5.4		.1	.0	.1	.5	3.9	2.1	1.7	.3	.0	.2	7.3	
SW	1.9	3.5	7.0	3.7		5.4		.0	.1	.1	2.3	2.9	2.2	1.0	.5	.1	.0	6.9	
W	2.4	2.6	6.3	4.1		5.3		.1	.1	.1	2.1	3.0	1.8	.9	.1	.0	.0	7.2	
NW	1.4	1.5	3.5	1.4		5.0		.0	.0	.1	.7	1.3	.3	.7	.3	.0	.0	4.3	
VAR	.0	.0	.0	.0		.0		.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
CALM	.3	.1	.8	.1		6.1		.0	.0	.0	.3	.8	.5	.1	.0	.0	.0	.6	
TOT OBS	207	168	387	261	1023	5.1		3	2	7	87	195	120	75	30	3	6	495	1023
TOT PCT	20.2	16.4	37.8	25.5	100.0			.3	.2	.7	8.5	19.1	11.7	7.3	2.9	.3	.6	46.4	100.0

TABLE 7

CUMULATIVE PCT FREQ OF SIMULTANEOUS OCCURRENCE  
OF CEILING HEIGHT (NH >4/8) AND VSBY (NM)

CEILING (FEET)	VSBY (NM)							
	>10	>5	>2	>1	>1/2	>1/4	>50YD	>0
>500	.8	.9	.9	.9	.9	.9	.9	.9
>1000	3.5	3.8	3.8	3.8	3.8	3.8	3.8	3.8
>1500	4.9	10.9	11.0	11.1	11.1	11.1	11.1	11.1
>2000	20.5	22.4	22.6	22.7	22.7	22.7	22.7	22.7
>10000	37.5	41.7	42.0	42.1	42.1	42.1	42.1	42.1
>500	43.7	50.1	50.4	50.6	50.6	50.6	50.6	50.6
>300	44.0	50.6	51.0	51.3	51.3	51.3	51.3	51.3
>150	44.1	50.8	51.3	51.6	51.6	51.6	51.6	51.6
>0	44.1	50.8	51.5	51.8	51.8	51.8	51.9	51.9
TOTAL	461	531	538	541	541	541	542	542

TOTAL NUMBER OF OBS: 1045

PCT FREQ NH <5/8: 48.1

TABLE 7A

PERCENTAGE FREQ OF LOW CLOUDS (EIGHTHS)

0	1	2	3	4	5	6	7	8	OBSCD	TOTAL OBS
10.1	9.3	10.2	10.1	7.3	7.4	8.5	14.1	22.7	.3	1158

PERIOD: (PRIMARY) 1911-1971  
(OVER-ALL) 1858-1971

MARCH

AREA 0014 AUSTRALIAN BIGHT SE  
36.15 132.1E

TABLE 8

PERCENT FREQ OF WIND DIRECTION VS OCCURRENCE OR NON-OCCURRENCE OF  
PRECIPITATION WITH VARYING VALUES OF VISIBILITY

VSBY (NM)		N	NE	E	SE	S	SW	W	NW	VAR	CALM	PCT	TOTAL OBS
<1/2	PCP	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
	NO PCP	.1	.1	.0	*	.1	.0	.0	*	.0	.0	.0	.4
	TOT %	.1	.1	.0	*	.1	.0	.0	*	.0	.0	.0	.4
1/2<1	PCP	.0	.0	.0	.0	.0	.0	.1	.0	.0	.0	.1	.1
	NO PCP	.1	*	.1	.0	.1	*	.0	.0	.0	.0	.4	.4
	TOT %	.1	*	.1	.0	.1	*	.1	.0	.0	.0	.4	.4
1<2	PCP	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
	NO PCP	.1	.1	.0	.1	.1	.0	.1	.1	.0	.1	.5	.5
	TOT %	.1	.1	.0	.1	.1	.0	.1	.1	.0	.1	.5	.5
2<5	PCP	.0	.0	.1	.0	.1	*	.1	.1	.0	.0	.3	.3
	NO PCP	.0	.0	.1	.1	.1	.1	.1	.0	.0	.0	.5	.5
	TOT %	.0	.0	.2	.1	.2	.1	.2	.1	.0	.0	.8	.8
5<10	PCP	.2	.2	.1	.5	.5	.6	1.2	.4	.0	.0	3.8	3.8
	NO PCP	2.7	3.6	4.7	5.1	4.5	3.8	3.6	1.6	.0	.4	30.0	30.0
	TOT %	2.9	3.8	4.8	5.6	5.0	4.4	4.8	2.0	.0	.4	33.8	33.8
10+	PCP	.0	.1	.1	.2	.2	.5	.5	.1	.0	.1	1.6	1.6
	NO PCP	5.1	7.3	6.9	7.7	10.7	10.1	8.8	4.9	.0	1.1	62.5	62.5
	TOT %	5.1	7.4	6.9	7.9	10.9	10.6	9.3	4.9	.0	1.1	64.1	64.1
TOT OBS 1705													
TOT PCT		8.3	11.4	12.0	13.8	16.3	15.1	14.4	7.1	.0	1.6	100.0	

TABLE 9

PERCENT FREQ OF WIND DIRECTION VS WIND SPEED  
WITH VARYING VALUES OF VISIBILITY

VSBY (NM)	SPO KTS	N	NE	E	SE	S	SW	W	NW	VAR	CALM	PCT	TOTAL OBS
<1/2	0-3	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
	4-10	*	.1	.0	*	.1	.0	.0	*	.0	.0	.2	.2
	11-21	.1	.1	.0	.0	.0	.0	.0	.0	.0	.0	.2	.2
	22+	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
	TOT %	.1	.1	.0	*	.1	.0	.0	*	.0	.0	.4	.4
1/2<1	0-3	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
	4-10	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
	11-21	.1	*	.1	.0	.1	*	.0	.0	.0	.0	.3	.3
	22+	.0	.0	.0	.0	.0	.0	.1	.0	.0	.0	.1	.1
	TOT %	.1	*	.1	.0	.1	*	.1	.0	.0	.0	.4	.4
1<2	0-3	.0	.0	.0	.0	.0	.0	.0	.0	.0	.1	.1	.1
	4-10	.1	.0	.0	.0	.0	.0	.0	.0	.0	.0	.1	.1
	11-21	.0	.0	.0	.0	.1	.0	.0	.1	.0	.0	.1	.1
	22+	.0	.1	.0	.1	.0	.0	.1	.0	.0	.0	.2	.2
	TOT %	.1	.1	.0	.1	.1	.0	.1	.1	.0	.1	.4	.4
2<5	0-3	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
	4-10	.0	.0	.1	.1	.1	.1	.2	.1	.0	.0	.5	.5
	11-21	.0	.0	.2	.1	.1	*	.0	.0	.0	.0	.4	.4
	22+	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
	TOT %	.0	.0	.2	.2	.2	.1	.2	.1	.0	.0	.9	.9
5<10	0-3	.3	.1	.4	.3	.1	.0	.2	.1	.0	.5	1.9	1.9
	4-10	1.6	1.9	2.9	3.0	2.1	1.4	.9	.8	.0	.0	14.6	14.6
	11-21	.7	1.3	1.0	1.6	2.0	1.7	1.7	.7	.0	.0	10.7	10.7
	22+	.1	.1	.2	.2	.4	1.0	1.6	.2	.0	.0	3.9	3.9
	TOT %	2.7	3.4	4.5	5.1	4.6	4.1	4.4	1.8	.0	.5	31.1	31.1
10+	0-3	.3	.2	.5	.2	.2	.2	.5	.2	.0	1.8	4.2	4.2
	4-10	2.7	4.4	4.5	5.0	5.8	4.3	2.9	2.8	.0	.0	32.5	32.5
	11-21	1.9	2.9	2.5	3.1	4.3	4.7	4.6	1.3	.0	.0	25.4	25.4
	22+	.3	.2	.1	.2	.3	1.6	1.3	.6	.0	.0	4.8	4.8
	TOT %	5.3	7.7	7.6	8.5	10.7	10.9	9.4	5.0	.0	1.8	66.8	66.8
TOT OBS 1878													
TOT PCT		8.2	11.4	12.5	13.9	15.6	15.1	14.1	6.9	.0	2.3	100.0	

## MARCH

PERIOD: (PRIMARY) 1911-1971  
(OVER-ALL) 1858-1971AREA 0014 AUSTRALIAN BIGHT SE  
36.1S 132.1E

TABLE 10

PERCENT FREQUENCY OF CEILING HEIGHTS (FEET, NH > 4/8) AND  
OCCURRENCE OF NH < 5/8 BY HOUR

HOUR (GMT)	000 149	150 299	300 599	600 999	1000 1999	2000 3499	3500 4999	5000 6499	6500 7999	8000+	TOTAL	NH < 5/8 ANY HGT	TOTAL OBS
00003	.3	.3	1.0	12.0	18.9	10.0	10.3	4.3	.3	1.3	58.8	41.2	301
06009	.7	.0	.3	6.3	18.1	12.5	5.6	2.6	.3	.3	46.7	53.3	304
12015	.0	.0	.0	7.4	17.2	10.2	7.0	1.2	.4	.4	49.8	56.3	256
18021	.0	.9	1.3	6.6	20.8	11.9	4.4	3.1	.0	.0	49.1	50.9	226
TOT	3	3	7	89	203	121	76	31	3	6	542	545	1087
PCT	.3	.3	.6	8.2	18.7	11.1	7.0	2.9	.3	.6	49.9	50.1	100.0

TABLE 11

PERCENT FREQUENCY VS BY (NM) BY HOUR

HOUR (GMT)	<1/2	1/2<1	1<2	2<5	5<10	10+	TOTAL OBS
00003	.0	.2	.0	1.0	35.2	63.6	588
06009	.5	.7	.5	.5	24.3	73.7	441
12015	.8	.2	.6	.8	37.0	60.7	516
18021	.5	.5	.8	1.3	27.7	69.2	390
TOT	8	7	8	17	613	1282	1935
PCT	.4	.4	.4	.9	31.7	66.3	100.0

TABLE 12

CUMULATIVE PCT FREQ OF RANGES OF VS BY (NM) AND/OR  
CEILING HGT (FEET, NH > 4/8) BY HOUR

HOUR (GMT)	<150 <50YD	<600 <1	<1000 <5	1000+ AND 5+	NH < 5/8 AND 5+	TOTAL OBS
00003	.3	1.7	14.6	45.4	40.0	295
06009	.7	1.4	8.3	41.2	50.5	289
12015	.0	.0	8.3	38.4	53.3	242
18021	.0	2.3	10.5	41.1	48.4	219
TOT	3	14	110	436	499	1045
PCT	.3	1.3	10.5	41.7	47.8	100.0

TABLE 13

PERCENT FREQUENCY OF RELATIVE HUMIDITY BY TEMP

TEMP F	0-29	30-39	40-49	50-59	60-69	70-79	80-89	90-100	TOTAL OBS	PCT FREQ
80/84	.0	.0	.1	.0	.0	.0	.0	.0	1	.1
75/79	.0	.0	.0	.0	.1	.1	.0	.0	2	.2
70/74	.0	.0	.0	.2	.2	.6	1.2	.3	31	2.5
65/69	.0	.1	.2	.3	2.8	6.1	7.5	7.6	302	24.5
60/64	.0	.0	.0	2.7	13.6	17.5	15.1	7.7	697	56.6
55/59	.0	.0	.0	.8	4.2	5.6	3.5	1.5	193	15.7
50/54	.0	.0	.0	.0	.1	.2	.1	.1	5	.4
TOTAL	0	1	3	49	259	370	337	212	1231	100.0
PCT	.0	.1	.2	4.0	21.0	30.1	27.4	17.2		

TABLE 14

PERCENT FREQUENCY OF WIND DIRECTION BY TEMP

N	NE	E	SE	S	SW	W	NW	VAR	CALM
.0	.0	.0	.0	.0	.0	.1	.0	.0	.0
.0	.2	.0	.0	.0	.0	.0	.0	.0	.0
.4	.2	.6	.2	.1	.3	.3	.5	.0	.0
3.8	4.0	3.2	2.1	2.0	2.0	4.2	2.8	.0	.5
3.3	6.5	6.3	9.3	9.5	10.6	6.9	3.2	.0	1.0
.5	.6	.7	2.6	4.7	3.4	2.3	.4	.0	.5
.0	.0	.0	.0	.1	.1	.1	.0	.0	.0
8.1	11.4	10.8	14.3	16.4	16.4	13.9	6.8	.0	1.9

TABLE 15

MEANS, EXTREMES AND PERCENTILES OF TEMP (DEG F) BY HOUR

HOUR (GMT)	MAX	99%	95%	50%	5%	1%	MIN	MEAN	TOTAL OBS
00003	75	72	70	63	58	57	54	63.5	849
06009	80	73	70	64	59	57	55	64.2	528
12015	75	69	67	62	58	55	52	62.4	689
18021	74	69	67	62	57	55	53	61.6	476
TOT	80	72	69	63	58	56	52	63.0	2542

TABLE 16

PERCENT FREQUENCY OF RELATIVE HUMIDITY BY HOUR

HOUR (GMT)	0-29	30-59	60-69	70-79	80-89	90-100	MEAN	TOTAL OBS
00003	.0	6.3	21.6	27.0	27.9	17.2	77	366
06009	.0	5.8	25.8	32.9	23.5	11.9	75	310
12015	.0	1.9	17.4	34.0	27.4	19.3	79	321
18021	.0	2.6	19.2	26.0	30.9	21.1	80	265
TOT	0	54	266	379	345	218	78	1262

PERIOD: (PRIMARY) 1911-1971  
(OVER-ALL) 1858-1971

MAKCH

AREA 0014 AUSTRALIAN BIGHT SE  
36.15 132.1E

TABLE 17

PCT FREQ OF AIR TEMPERATURE (DEG F) AND THE OCCURRENCE OF FOG (WITHOUT PRECIPITATION)  
VS AIR-SEA TEMPERATURE DIFFERENCE (DEG F)

AIR-SEA TMP DIF	53 56	57 60	61 64	65 68	69 72	73 76	77 80	TOT	W FOG	NO FOG
14/16	.0	.0	.0	.0	.0	.0	.1	1	.0	.1
9/10	.0	.0	.1	.0	.1	.1	.0	4	.0	.3
7/8	.0	.0	.0	.0	.1	.1	.0	2	.0	.1
6	.0	.1	.0	.1	.1	.1	.0	8	.0	.5
5	.0	.3	.0	.4	.6	.2	.0	22	.0	1.5
4	.0	.1	.1	1.2	1.0	.1	.0	37	.0	2.5
3	.0	.3	.5	2.3	1.1	.0	.0	63	.0	4.2
2	.0	.2	1.3	3.3	.5	.0	.0	79	.1	5.2
1	.1	.4	4.1	4.3	.4	.0	.0	139	.1	9.1
0	.0	.9	9.2	5.2	.3	.0	.0	233	.3	15.3
-1	.1	2.2	9.9	3.8	.1	.0	.0	240	.1	15.9
-2	.0	4.3	9.3	1.9	.1	.0	.0	235	.1	15.6
-3	.1	4.9	5.7	.7	.0	.0	.0	172	.3	11.2
-4	.5	5.5	2.6	.0	.0	.0	.0	128	.1	8.5
-5	.6	2.7	1.9	.1	.1	.0	.0	80	.2	5.1
-6	.1	.9	.6	.0	.0	.0	.0	24	.0	1.6
-7/-8	.5	.7	.4	.0	.0	.0	.0	24	.0	1.6
-9/-10	.1	.4	.0	.0	.0	.0	.0	8	.0	.5
-11/-13	.0	.1	.0	.0	.0	.0	.0	2	.0	.1
TOTAL	30		684		66		1	1501	1.8	1483
PCT	2.0	24.1	45.6	23.3	4.4	.7	.1	100.0	1.2	98.8

PERIOD: (OVER-ALL) 1963-1971

TABLE 18

PCT FREQ OF WIND SPEED (KTS) AND DIRECTION VERSUS SEA HEIGHTS (FT)

HGT	1-3	4-10	11-21	22-33	34-47	48+	PCT	1-3	4-10	11-21	22-33	34-47	48+	PCT
<1	.2	.0	.0	.0	.0	.0	.2	.0	.4	.0	.0	.0	.0	.4
1-2	.2	2.0	.0	.0	.0	.0	2.1	.0	3.5	.5	.0	.0	.0	4.1
3-4	.0	2.8	1.4	.0	.0	.0	4.2	.0	1.8	2.1	.0	.0	.0	4.0
5-6	.0	.0	1.1	.0	.0	.0	1.1	.0	.2	1.7	.4	.0	.0	2.2
7	.0	.0	.5	.0	.0	.0	.5	.0	.0	.4	.0	.0	.0	.4
8-9	.0	.0	.2	.5	.0	.0	.7	.0	.0	.0	.2	.0	.0	.2
10-11	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
12	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
13-16	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
17-19	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
20-22	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
23-25	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
26-32	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
33-40	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
41-48	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
49-60	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
61-70	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
71-86	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
87+	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
TOT PCT	.4	4.7	3.3	.5	.0	.0	8.9	.0	5.9	4.7	.6	.0	.0	11.3

HGT	1-3	4-10	11-21	22-33	34-47	48+	PCT	1-3	4-10	11-21	22-33	34-47	48+	PCT
<1	.2	1.2	.0	.0	.0	.0	1.4	.2	.8	.0	.0	.0	.0	1.0
1-2	.1	2.2	.3	.0	.0	.0	2.6	.0	2.6	.5	.0	.0	.0	3.1
3-4	.0	2.7	1.5	.0	.0	.0	4.2	.0	2.6	.9	.0	.0	.0	3.5
5-6	.0	.2	1.4	.0	.0	.0	1.6	.0	.2	2.0	.0	.0	.0	2.1
7	.0	.0	.2	.1	.0	.0	.3	.0	.0	.5	.0	.0	.0	.6
8-9	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
10-11	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
12	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
13-16	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
17-19	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
20-22	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
23-25	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
26-32	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
33-40	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
41-48	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
49-60	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
61-70	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
71-86	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
87+	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
TOT PCT	.3	6.3	3.4	.1	.0	.0	10.1	.2	6.3	3.9	.0	.0	.0	10.4

PERIOD: (OVER-ALL) 1963-1971

MARCH

AREA 0014 AUSTRALIAN RIGHT SE  
36.15 132.1E

TABLE 18 (CONT)

PCT FREQ OF WIND SPEED (KTS) AND DIRECTION VERSUS SEA HEIGHTS (FT)

HGT	S							PCT	SW							PCT
	1-3	4-10	11-21	22-33	34-47	48+			1-3	4-10	11-21	22-33	34-47	48+		
<1	.0	.7	.1	.0	.0	.0		.9	.0	.2	.0	.0	.0	.0		.2
1-2	.0	3.6	.2	.0	.0	.0		3.8	.0	2.0	1.6	.0	.0	.0		3.6
3-4	.0	3.4	2.2	.0	.0	.0		5.6	.0	2.8	1.8	.2	.0	.0		4.7
5-6	.0	.4	2.8	.2	.0	.0		3.4	.0	1.0	3.6	.7	.5	.0		5.9
7	.2	.3	.5	.1	.0	.0		1.2	.1	.0	1.3	.8	.0	.0		2.1
8-9	.0	.1	.3	.1	.0	.0		.6	.0	.2	.2	.6	.1	.0		1.1
10-11	.0	.0	.2	.0	.0	.0		.2	.0	.0	.0	.4	.0	.0		.4
12	.0	.0	.0	.1	.0	.0		.1	.0	.0	.0	.1	.0	.0		.1
13-16	.0	.0	.0	.0	.0	.0		.0	.0	.0	.0	.2	.0	.0		.2
17-19	.0	.0	.0	.0	.0	.0		.0	.0	.0	.0	.0	.0	.0		.0
20-22	.0	.0	.0	.0	.0	.0		.0	.0	.0	.0	.0	.0	.0		.0
23-25	.0	.0	.0	.0	.0	.0		.0	.0	.0	.0	.0	.0	.0		.0
26-32	.0	.0	.0	.0	.0	.0		.0	.0	.0	.0	.0	.0	.0		.0
33-40	.0	.0	.0	.0	.0	.0		.0	.0	.0	.0	.0	.0	.0		.0
41-48	.0	.0	.0	.0	.0	.0		.0	.0	.0	.0	.0	.0	.0		.0
49-60	.0	.0	.0	.0	.0	.0		.0	.0	.0	.0	.0	.0	.0		.0
61-70	.0	.0	.0	.0	.0	.0		.0	.0	.0	.0	.0	.0	.0		.0
71-86	.0	.0	.0	.0	.0	.0		.0	.0	.0	.0	.0	.0	.0		.0
87+	.0	.0	.0	.0	.0	.0		.0	.0	.0	.0	.0	.0	.0		.0
TOT PCT	.2	8.6	6.4	.6	.0	.0		15.7	.1	6.2	8.5	3.0	.6	.0		18.4

HGT	W							PCT	NW							PCT	TOTAL PCT
	1-3	4-10	11-21	22-33	34-47	48+			1-3	4-10	11-21	22-33	34-47	48+			
<1	.0	.9	.0	.0	.0	.0		1.4	.0	.5	.0	.0	.0	.0		.5	
1-2	.2	2.2	.7	.0	.0	.0		3.1	.0	2.2	.0	.0	.0	.0		2.2	
3-4	.0	1.4	2.5	.0	.0	.0		3.9	.0	1.2	.2	.0	.0	.0		1.4	
5-6	.0	.7	3.5	.7	.2	.0		5.1	.0	.0	.6	.0	.0	.0		.6	
7	.3	.0	.7	.5	.0	.0		1.5	.0	.0	.2	.5	.0	.0		.8	
8-9	.0	.0	.4	.3	.5	.0		1.1	.0	.0	.0	.2	.0	.0		.2	
10-11	.0	.0	.0	.1	.2	.0		.3	.0	.0	.0	.2	.0	.0		.2	
12	.0	.0	.0	.3	.0	.0		.3	.0	.0	.0	.0	.0	.0		.0	
13-16	.0	.0	.0	.0	.0	.0		.0	.0	.0	.0	.0	.0	.0		.0	
17-19	.0	.0	.0	.0	.0	.0		.0	.0	.0	.0	.0	.0	.0		.0	
20-22	.0	.0	.0	.0	.0	.0		.0	.0	.0	.0	.0	.0	.0		.0	
23-25	.0	.0	.0	.0	.0	.0		.0	.0	.0	.0	.0	.0	.0		.0	
26-32	.0	.0	.0	.0	.0	.0		.0	.0	.0	.0	.0	.0	.0		.0	
33-40	.0	.0	.0	.0	.0	.0		.0	.0	.0	.0	.0	.0	.0		.0	
41-48	.0	.0	.0	.0	.0	.0		.0	.0	.0	.0	.0	.0	.0		.0	
49-60	.0	.0	.0	.0	.0	.0		.0	.0	.0	.0	.0	.0	.0		.0	
61-70	.0	.0	.0	.0	.0	.0		.0	.0	.0	.0	.0	.0	.0		.0	
71-86	.0	.0	.0	.0	.0	.0		.0	.0	.0	.0	.0	.0	.0		.0	
87+	.0	.0	.0	.0	.0	.0		.0	.0	.0	.0	.0	.0	.0		.0	
TOT PCT	1.0	5.2	7.8	2.0	.8	.0		16.8	.0	3.9	1.0	1.0	.0	.0		5.9	97.6

WIND SPEED (KTS) VS SEA HEIGHT (FT)

HGT	0-3	4-10	11-21	22-33	34-47	48+	PCT	TOT OBS
<1	4.3	4.8	.2	.0	.0	.0	9.3	
1-2	1.3	20.0	3.8	.0	.0	.0	25.0	
3-4	.0	18.4	12.3	.2	.0	.0	30.9	
5-6	.0	2.5	16.5	2.0	.7	.0	21.6	
7	.5	.4	4.3	2.1	.0	.0	7.3	
8-9	.0	.4	1.1	2.0	.5	.0	3.9	
10-11	.0	.0	.2	.7	.2	.0	1.1	
12	.0	.0	.0	.5	.0	.0	.5	
13-16	.0	.0	.0	.2	.0	.0	.2	
17-19	.0	.0	.0	.0	.0	.0	.0	
20-22	.0	.0	.0	.0	.0	.0	.0	
23-25	.0	.0	.0	.0	.0	.0	.0	
26-32	.0	.0	.0	.0	.0	.0	.0	
33-40	.0	.0	.0	.0	.0	.0	.0	
41-48	.0	.0	.0	.0	.0	.0	.0	
49-60	.0	.0	.0	.0	.0	.0	.0	
61-70	.0	.0	.0	.0	.0	.0	.0	
71-86	.0	.0	.0	.0	.0	.0	.0	
87+	.0	.0	.0	.0	.0	.0	.0	
TOT PCT	6.1	46.5	38.3	7.7	1.4	.0	100.0	559

PERIOD: (OVER-ALL) 1949-1971

TABLE 19

PERCENT FREQUENCY OF WAVE HEIGHT (FT) VS WAVE PERIOD (SECONDS)

PERIOD (SEC)	<1	1-2	3-4	5-6	7	8-9	10-11	12	13-16	17-19	20-22	23-25	26-32	33-40	41-48	49-60	61-70	71-86	87+	TOTAL	MEAN HGT
4-6	1.2	5.0	7.1	2.9	1.2	.8	.1	.0	.0	.3	.0	.0	.0	.0	.0	.0	.0	.0	.0	188	4
6-7	.0	.1	2.5	5.6	5.0	2.7	1.7	.2	.9	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	188	7
8-9	.0	.1	1.5	3.2	6.0	4.0	2.0	1.7	1.9	.2	.3	.0	.0	.0	.0	.0	.0	.0	.0	188	8
10-11	.0	.3	1.4	3.8	3.2	3.0	2.3	1.4	1.8	.6	.1	.1	.0	.0	.0	.0	.0	.0	.0	159	8
12-13	.0	.0	.3	.5	1.9	1.8	.9	1.9	.8	.3	.0	.0	.0	.0	.0	.0	.0	.0	.0	82	10
13-14	.0	.0	.0	.2	.5	.9	.6	.7	.7	.0	.3	.2	.0	.0	.0	.0	.0	.0	.0	35	11
INDET	1.2	1.5	2.1	1.8	1.9	.7	.3	.3	.3	.1	.0	.0	.0	.0	.0	.0	.0	.0	.0	92	5
TOTAL	22	62	132	160	174	123	70	55	57	18	10	3	0	0	0	0	0	0	0	885	7
PCT	2.5	7.0	14.9	18.1	19.6	13.9	7.9	6.2	6.4	2.0	1.1	.3	.0	.0	.0	.0	.0	.0	.0	100.0	



PERIOD: (PRIMARY) 1912-1969  
(OVER-ALL) 1859-1969

APRIL

AREA 0014 AUSTRALIAN BIGHT SE  
36.15 132.1E

TABLE 1

PERCENT FREQUENCY OF WEATHER OCCURRENCE BY WIND DIRECTION

WIND DIR	PRECIPITATION TYPE							OTHER WEATHER PHENOMENA							
	RAIN	RAIN SHWR	DRZL	FRZG PCPN	SNOW	OTHER FRZN PCPN	HAIL	PCPN AT DB TIME	PCPN PAST HOUR	THDR LTNG	FGD WD PCPN	FGD WD PCPN PAST HR	SMOKE HAZE	SPRAY BLWG DUST	NO SIG WEA
N	2.3	2.8	1.6	.0	.0	.0	.0	6.7	.0	3.9	2.8	.0	.9	.0	86.5
NE	2.5	3.7	1.7	.0	.0	.0	.0	7.9	1.7	.7	2.8	.0	.7	.0	86.2
E	1.1	2.0	2.8	.0	.0	.0	.0	5.9	2.2	1.5	1.1	.0	.0	.0	89.2
SE	1.7	1.1	.7	.0	.0	.0	.0	3.5	3.2	.8	.5	.0	.0	.0	92.0
S	2.2	6.5	1.9	.0	.0	.0	.0	10.6	1.5	.0	.8	.0	.0	.0	87.1
SW	2.1	8.0	4.3	.0	.0	.0	.0	14.4	5.2	.7	.7	.0	.0	.0	79.7
W	2.6	5.0	1.4	.0	.0	.0	.0	9.1	3.5	1.2	.2	.0	.8	.0	85.4
NW	3.5	3.5	1.0	.0	.0	.0	.0	8.6	3.6	4.8	1.6	.0	2.3	.0	81.1
VAR	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
CALM	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	6.3	.0	6.3	.0	87.5
TOT PCT	2.2	4.1	1.9	.0	.0	.0	.1	8.3	2.5	1.7	1.4	.0	.6	.0	85.9
TOT OBS:	1612														

TABLE 2

PERCENT FREQUENCY OF WEATHER OCCURRENCE BY HOUR

HOUR (GMT)	PRECIPITATION TYPE							OTHER WEATHER PHENOMENA							
	RAIN	RAIN SHWR	DRZL	FRZG PCPN	SNOW	OTHER FRZN PCPN	HAIL	PCPN AT DB TIME	PCPN PAST HOUR	THDR LTNG	FGD WD PCPN	FGD WD PCPN PAST HR	SMOKE HAZE	SPRAY BLWG DUST	NO SIG WEA
06003	1.4	3.7	1.8	.0	.0	.0	.2	7.1	2.4	.4	1.8	.0	1.2	.0	87.5
06009	2.6	4.1	1.3	.0	.0	.0	.0	8.0	3.6	.0	1.3	.0	.5	.0	86.6
12015	2.8	3.7	2.3	.0	.0	.0	.0	8.8	1.6	3.7	1.6	.0	.2	.0	85.0
18021	2.2	5.0	2.5	.0	.0	.0	.0	9.7	2.5	2.8	.6	.0	.3	.0	84.7
TOT PCT	2.2	4.1	1.9	.0	.0	.0	.1	8.2	2.5	1.6	1.4	.0	.6	.0	86.1
TOT OBS:	1653														

TABLE 3

PERCENTAGE FREQUENCY OF WIND DIRECTION BY SPEED AND BY HOUR

WIND DIR	WIND SPEED (KNOTS)						TOTAL OBS	PCT FREQ	MEAN SPD	HOUR (GMT)							
	0-3	4-10	11-21	22-33	34-47	48+				00	03	06	09	12	15	18	21
N	.7	5.9	5.6	.9	.1	.0		13.3	11.8	14.5	13.8	13.9	15.0	12.0	13.0	12.3	18.8
NE	.8	5.4	3.5	.5	.0	.0		10.3	10.6	8.5	10.6	10.6	25.0	10.7	9.7	11.2	18.8
E	.6	6.3	3.2	.6	.0	.0		10.7	10.2	11.7	11.3	8.6	20.0	9.4	10.2	13.0	31.3
SE	1.0	4.3	4.3	.5	.0	.0		10.1	10.7	9.5	8.3	12.7	.0	11.2	10.2	8.0	.0
S	.6	4.7	5.1	1.0	.1	.0		11.4	12.6	11.9	9.9	10.9	20.0	10.4	14.3	12.3	25.0
SW	.6	4.3	6.5	2.9	.5	.0		14.8	15.5	13.6	13.3	14.2	20.0	17.6	16.2	14.2	.0
W	.6	5.4	6.8	2.8	1.1	.1		16.8	16.0	18.5	16.4	16.9	.0	17.8	13.1	15.9	.0
NW	.4	4.6	4.2	1.2	.4	.0		10.9	13.4	9.9	13.8	11.5	.0	9.7	11.2	10.5	6.3
VAR	.0	.0	.0	.0	.0	.0		.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
CALM	1.7							1.7	.0	2.0	2.6	.6	.0	1.3	2.0	2.6	.0
TOT OBS	171	986	947	252	52	2	2410		12.7	505	313	487	5	470	196	430	4
TOT PCT	7.1	40.9	39.3	10.5	2.2	.1	100.0			100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0

TABLE 3A

WIND DIR	WIND SPEED (KNOTS)					TOTAL OBS	PCT FREQ	MEAN SPD	HOUR (GMT)			
	0-6	7-16	17-27	28-40	41+				00	06	12	18
N	2.8	7.7	2.6	.2	.0		13.3	11.8	14.2	13.9	12.3	12.4
NE	2.7	5.9	1.5	.1	.0		10.3	10.6	9.3	10.6	10.4	11.3
E	3.2	6.1	1.3	.1	.0		10.7	10.2	11.6	8.7	9.6	13.2
SE	2.8	5.6	1.6	.1	.0		10.1	10.7	9.0	12.6	10.9	7.9
S	2.1	6.3	2.5	.5	.0		11.4	12.6	11.1	11.0	11.5	12.4
SW	2.0	6.7	4.6	1.4	.1		14.8	15.5	13.4	14.2	17.2	14.1
W	2.6	7.2	4.6	1.9	.4		16.8	16.0	17.7	16.8	16.4	15.7
NW	2.3	5.1	2.7	.8	.0		10.9	13.4	11.4	11.4	10.2	10.4
VAR	.0	.0	.0	.0	.0		.0	.0	.0	.0	.0	.0
CALM	1.7						1.7	.0	2.2	.6	1.5	2.5
TOT OBS	537	1217	517	127	12	2410		12.7	818	492	666	434
TOT PCT	22.3	50.5	21.5	5.3	.5	100.0			100.0	100.0	100.0	100.0

APRIL

PERIOD: (PRIMARY) 1912-1969  
(OVER-ALL) 1859-1969

AREA 0014 AUSTRALIAN BIGHT SE  
36.1S 132.1E

TABLE 4

PERCENTAGE FREQUENCY OF WIND SPEED BY HOUR (GMT)

HOUR	CALM	1-3	4-10	WIND SPEED (KNOTS)				48+	MEAN	PCT FREQ	TOTAL OBS
				11-21	22-23	34-47					
00003	2.2	5.1	42.5	37.5	10.0	2.4	.1	12.5	100.0	818	
06009	.6	4.5	39.4	42.3	11.4	1.6	.0	13.2	100.0	492	
12015	1.5	6.2	39.6	40.2	10.4	2.0	.2	12.7	100.0	666	
18021	2.5	5.5	41.5	37.8	10.4	2.3	.0	12.5	100.0	434	
TOT	42	129	986	947	252	52	2	12.7		2410	
PCT	1.7	5.4	40.9	39.3	10.5	2.2	.1	100.0			

TABLE 5

PCT FREQ OF TOTAL CLOUD AMOUNT (EIGHTHS)  
BY WIND DIRECTION

WIND DIR	0-2	3-4	5-7	8 & OBSCD	TOTAL OBS	MEAN CLOUD COVER
N	4.4	2.3	3.6	3.0		4.3
NE	2.8	1.5	3.1	3.7		5.0
E	1.7	1.6	4.1	2.9		5.4
SE	1.1	1.4	4.6	3.1		5.7
S	.7	1.8	7.3	2.4		6.0
SW	1.3	2.6	7.0	4.4		5.9
W	2.7	3.7	6.9	4.3		5.2
NW	2.1	1.6	3.7	1.4		4.8
VAR	.0	.0	.0	.0		.0
CALM	.2	.0	.5	.3		6.2
TOT OBS	160	155	383	240	938	5.3
TOT PCT	17.1	16.5	40.8	25.6	100.0	

TABLE 6

PERCENTAGE FREQUENCY OF CEILING HEIGHTS (FT, NH >4/8)  
AND OCCURRENCE OF NH <5/8 BY WIND DIRECTION

WIND DIR	000	150	300	600	1000	2000	3500	5000	6500	8000+	NH <5/8 ANY HGT	TOTAL OBS
	149	299	599	999	1999	3999	4999	6499	7999			
N	.1	.0	.0	.3	1.6	.6	.9	.3	.2	.5	9.0	
NE	.0	.0	.0	.9	2.1	1.0	.6	.1	.0	.4	6.0	
E	.0	.0	.1	1.3	2.0	.9	.9	.5	.0	.0	4.5	
SE	.0	.0	.1	.6	3.0	1.5	.9	.3	.0	.0	3.7	
S	.1	.0	.1	1.6	3.1	1.8	.6	.6	.0	.0	4.3	
SW	.0	.0	.3	.9	4.4	2.7	1.8	.2	.0	.0	5.0	
W	.1	.0	.4	1.4	4.1	1.6	.9	.3	.0	.1	8.7	
NW	.0	.0	.0	.3	1.8	.8	.2	.2	*	*	5.4	
VAR	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
CALM	.1	.0	.0	.2	.2	.0	.1	.0	.0	.0	.4	
TOT OBS	4	0	10	69	210	103	65	24	2	9	442	938
TOT PCT	.4	.0	1.1	7.4	22.4	11.0	6.9	2.6	.2	1.0	47.1	100.0

TABLE 7

CUMULATIVE PCT FREQ OF SIMULTANEOUS OCCURRENCE  
OF CEILING HEIGHT (NH >4/8) AND VSBY (NM)

CEILING (FEET)	VSBY (NM)							
	>10	>5	>2	>1	>1/2	>1/4	>50YD	>0
>4500	1.0	1.1	1.1	1.1	1.1	1.1	1.1	1.1
>3500	3.4	3.6	3.6	3.6	3.6	3.6	3.6	3.6
>2500	9.8	10.6	10.6	10.6	10.6	10.6	10.6	10.6
>2000	19.3	21.5	21.7	21.8	21.8	21.8	21.8	21.8
>1000	39.1	43.6	44.0	44.1	44.1	44.1	44.1	44.1
>600	44.6	50.7	51.2	51.3	51.3	51.3	51.3	51.3
>300	45.2	51.7	52.3	52.5	52.5	52.5	52.5	52.5
>150	45.2	51.7	52.3	52.5	52.5	52.5	52.5	52.5
>0	45.4	51.9	52.6	52.7	52.7	52.8	52.8	52.9
TOTAL	435	498	504	505	505	506	506	507

TOTAL NUMBER OF OBS: 959

PCT FREQ NH <5/8 47.1

TABLE 7A

PERCENTAGE FREQ OF LOW CLOUDS (EIGHTHS)

0	1	2	3	4	5	6	7	8	OBSCD	TOTAL OBS
9.7	7.4	8.9	10.2	10.6	9.0	11.5	11.8	20.6	.2	1047

PERIOD: (PRIMARY) 1912-1969  
(OVER-ALL) 1859-1969

APRIL

AREA 0014 AUSTRALIAN BIGHT SE  
36.1S 132.1E

TABLE 8

PERCENT FREQ OF WIND DIRECTION VS OCCURRENCE OR NON-OCCURRENCE OF  
PRECIPITATION WITH VARYING VALUES OF VISIBILITY

VSBY (NM)		N	NE	E	SE	S	SW	W	NW	VAR	CALM	PCT	TOTAL OBS
<1/2	PCP	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
	NO PCP	.1	.0	.0	.0	.0	*	*	.1	.0	.1	.2	
	TOT %	.1	.0	.0	.0	.0	*	*	.1	.0	.1	.2	
1/2<1	PCP	.0	.1	.1	.0	.1	.0	.0	.1	.0	.0	.2	
	NO PCP	.2	.2	.0	.1	.1	.0	*	.1	.0	.0	.6	
	TOT %	.2	.3	.1	.1	.1	.0	*	.1	.0	.0	.9	
1<2	PCP	.0	.1	.0	.0	.0	.0	.0	.0	.0	.0	.1	
	NO PCP	*	.0	.0	.0	.0	.0	.0	.2	.0	.0	.2	
	TOT %	*	.1	.0	.0	.0	.0	.0	.2	.0	.0	.3	
2<5	PCP	.0	.1	.1	.0	.0	.0	.1	.1	.0	.0	.4	
	NO PCP	.0	.1	.0	.0	.1	.0	.1	.0	.0	.0	.2	
	TOT %	.0	.2	.1	.0	.1	.0	.2	.1	.0	.0	.6	
5<10	PCP	1.0	.4	.2	.3	1.1	1.4	.7	.5	.0	.0	5.6	
	NO PCP	5.4	3.6	3.8	4.7	4.0	3.0	3.7	3.2	.0	.2	31.6	
	TOT %	6.3	4.0	4.0	5.1	5.0	4.4	4.4	3.7	.0	.2	37.2	
10+	PCP	.1	.2	.3	.1	.2	.5	.6	.2	.0	.0	2.0	
	NO PCP	8.8	6.3	6.7	6.4	6.7	8.2	10.0	5.0	.0	.7	58.8	
	TOT %	8.9	6.5	7.0	6.5	6.9	8.7	10.6	5.2	.0	.7	60.9	
TOT OBS													
TOT PCT													
		15.5	11.0	11.1	11.6	12.1	13.0	15.2	9.4	.0	1.0	100.0	1612

TABLE 9

PERCENT FREQ OF WIND DIRECTION VS WIND SPEED  
WITH VARYING VALUES OF VISIBILITY

VSBY (NM)	SPD KTS	N	NE	E	SE	S	SW	W	NW	VAR	CALM	PCT	TOTAL OBS
<1/2	0-3	.1	.0	.0	.0	.0	.0	.0	.0	.0	.1	.1	
	4-10	.0	.0	.0	.0	.0	.0	.0	.1	.0	.0	.1	
	11-21	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.1	
	22+	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
	TOT %	.1	.0	.0	.0	.0	*	*	.1	.0	.1	.2	
1/2<1	0-3	.0	*	*	.0	.0	.0	.0	.0	.0	.0	.1	
	4-10	.1	.2	*	.1	.1	.0	*	.1	.0	.0	.6	
	11-21	*	.1	.0	.0	.0	.0	.0	.0	.0	.0	.1	
	22+	.0	.0	.0	.0	.0	.0	.0	.1	.0	.0	.1	
	TOT %	.1	.3	.1	.1	.1	.0	*	.1	.0	.0	.8	
1<2	0-3	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
	4-10	.0	.0	.0	.0	.0	.0	.0	.2	.0	.0	.2	
	11-21	*	.1	.0	.0	.0	.0	.0	.0	.0	.0	.1	
	22+	*	.1	.0	.0	.0	.0	.0	.2	.0	.0	.3	
	TOT %	*	.1	.0	.0	.0	.0	.0	.2	.0	.0	.3	
2<5	0-3	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
	4-10	.0	.1	.1	.0	.1	.0	.1	.0	.0	.0	.3	
	11-21	.0	.1	.0	.0	.1	.0	.1	.1	.0	.0	.3	
	22+	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
	TOT %	.0	.2	.1	.0	.1	.0	.2	.1	.0	.0	.6	
5<10	0-3	.3	.2	.2	.7	.2	.1	.1	.1	.0	.2	2.2	
	4-10	2.6	2.3	2.0	1.7	2.0	1.2	1.2	1.2	.0	.0	14.2	
	11-21	2.2	1.0	1.4	2.1	2.2	2.3	1.6	1.4	.0	.0	14.3	
	22+	.7	.2	.1	.1	.3	.4	1.2	.7	.0	.0	3.7	
	TOT %	5.8	3.7	3.7	4.7	4.7	4.1	4.1	3.4	.0	.2	34.4	
10+	0-3	.3	.3	.3	.3	.4	.3	.3	.2	.0	1.2	3.5	
	4-10	3.6	3.4	4.9	3.2	3.0	3.0	3.7	2.4	.0	.0	27.0	
	11-21	4.4	2.7	1.8	3.3	3.8	3.6	4.5	2.3	.0	.0	26.5	
	22+	.5	.2	.2	.3	.8	2.0	1.9	.8	.0	.0	6.6	
	TOT %	8.7	6.6	7.2	7.0	8.0	8.9	10.3	5.7	.0	1.2	63.6	
TOT OBS													
TOT PCT													
		14.8	10.9	11.0	11.8	12.9	13.0	14.6	9.5	.0	1.5	100.0	1758

## APRIL

PERIOD: (PRIMARY) 1912-1969  
(OVER-ALL) 1859-1969

AREA 0014 AUSTRALIAN BIGHT SE  
36.1S 132.1E

TABLE 10

PERCENT FREQUENCY OF CEILING HEIGHTS (FEET, NH >4/8) AND  
OCCURRENCE OF NH <5/8 BY HOUR

HOUR (GMT)	000	150	300	600	1000	2000	3500	5000	6500	8000+	TOTAL	NH <5/8 ANY HGT	TOTAL OBS
00003	.0	.0	1.1	9.4	23.9	11.2	9.4	3.3	.0	1.1	59.4	40.6	276
06009	.8	.0	1.1	6.5	19.8	11.1	5.3	2.7	.4	1.1	48.9	51.1	262
12015	.8	.0	.8	5.0	20.8	9.6	6.3	2.9	.4	.8	47.5	52.5	240
18021	.0	.0	1.4	6.4	20.9	10.9	5.5	.5	.0	.5	45.9	54.1	220
TOT	4	0	11	69	214	107	67	24	2	9	507	491	998
PCT	.4	.0	1.1	6.9	21.4	10.7	6.7	2.4	.2	.9	50.8	49.2	100.0

TABLE 11

PERCENT FREQUENCY VSBY (NM) BY HOUR

HOUR (GMT)	<1/2	1/2<1	1<2	2<5	5<10	10+	TOTAL OBS
00003	.0	.9	.5	.5	39.6	58.4	555
06009	.5	.5	.5	.7	29.9	67.9	411
12015	.4	.8	.2	.6	37.9	60.0	488
18021	.0	.9	.0	.9	28.4	69.9	345
TOT	4	14	6	12	626	1137	1799
PCT	.2	.8	.3	.7	34.8	63.2	100.0

TABLE 12

CUMULATIVE PCT FREQ OF RANGES OF VSBY (NM) AND/OR  
CEILING HGT (FEET, NH >4/8), BY HOUR

HOUR (GMT)	<150 <50YD	<600 <1	<1000 <5	1000+ AND 5+	NH <5/8 AND 5+	TOTAL OBS
00003	.0	1.1	11.5	49.3	39.3	270
06009	.8	1.9	9.3	40.5	50.2	257
12015	.9	2.2	8.0	43.1	48.9	225
18021	.0	1.4	8.2	40.6	51.2	207
TOT	4	16	90	418	451	959
PCT	.4	1.7	9.4	43.6	47.0	100.0

TABLE 13

PERCENT FREQUENCY OF RELATIVE HUMIDITY BY TEMP

TEMP F	0-29	30-39	40-49	50-59	60-69	70-79	80-89	90-100	TOTAL OBS	PCT FREQ
70/74	.0	.0	.0	.2	.3	.1	.1	.0	7	.6
65/69	.0	.0	.1	.4	1.4	5.0	6.7	3.8	205	17.3
60/64	.0	.0	.0	1.9	6.4	14.4	17.1	10.1	592	50.0
55/59	.0	.0	.1	1.6	8.5	10.7	8.1	1.8	365	30.8
50/54	.0	.0	.0	.0	.4	.3	.4	.2	16	1.4
TOTAL	0	0	2	4.8	20.1	36.2	38.4	18.8	1185	100.0
PCT	.0	.0	.2	4.1	17.0	30.5	32.4	15.9		

TABLE 14

PERCENT FREQUENCY OF WIND DIRECTION BY TEMP

N	NE	E	SE	S	SW	W	NW	VAR	CALM
.3	.0	.1	.*	.0	.*	.*	.1	.0	.0
5.7	2.6	1.6	.6	.8	.9	2.7	2.3	.0	.2
8.5	6.5	5.8	4.6	4.3	5.8	9.2	4.8	.0	.5
1.0	1.6	3.6	5.2	7.5	7.3	3.4	.6	.0	.6
.0	.0	.0	.3	.7	.1	.3	.0	.0	.0
15.3	10.6	11.2	10.8	13.2	14.1	15.6	7.8	.0	1.3

TABLE 15

MEANS, EXTREMES AND PERCENTILES OF TEMP (DEG F) BY HOUR

HOUR (GMT)	MAX	99%	95%	50%	5%	1%	MIN	MEAN	TOTAL OBS
00003	73	70	68	62	56	53	50	61.9	806
06009	72	70	67	62	56	54	51	62.2	493
12015	71	67	66	61	55	54	51	60.6	679
18021	71	68	65	60	55	53	49	60.3	440
TOT	73	69	67	61	56	53	49	61.3	2418

TABLE 16

PERCENT FREQUENCY OF RELATIVE HUMIDITY BY HOUR

HOUR (GMT)	0-29	30-59	60-69	70-79	80-89	90-100	MEAN	TOTAL OBS
00003	.0	3.6	16.3	32.5	32.2	15.4	79	363
06009	.0	6.4	21.1	30.2	31.2	11.1	76	298
12015	.0	3.9	14.8	29.8	32.1	19.3	80	305
18021	.0	2.8	14.1	29.0	33.9	20.2	80	248
TOT	0	51	202	371	392	198	79	1214

APRIL

PERIOD: (PRIMARY) 1912-1969  
(OVER-ALL) 1859-1969

AREA 0014 AUSTRALIAN BIGHT SE  
36.15 132.1E

TABLE 17

PCT FREQ OF AIR TEMPERATURE (DEG F) AND THE OCCURRENCE OF FOG (WITHOUT PRECIPITATION)  
VS AIR-SEA TEMPERATURE DIFFERENCE (DEG F)

AIR-SEA TMP DIF	49 52	53 56	57 60	61 64	65 68	69 72	TOT	W FOG	WD FOG
11/13	.0	.0	.0	.1	.0	.0	1	.0	.1
9/10	.0	.0	.0	.1	.0	.0	2	.0	.1
7/8	.0	.0	.1	.1	.1	.3	7	.0	.5
6	.0	.1	.0	.0	.2	.3	9	.0	.6
5	.0	.1	.0	.0	.0	.3	13	.1	.8
4	.0	.0	.0	.3	1.9	.4	37	.0	2.6
3	.0	.0	.3	1.2	3.4	.2	74	.0	5.1
2	.1	.0	.2	2.4	3.2	.2	88	.0	6.1
1	.0	.0	.6	7.5	3.9	.0	173	.6	11.4
0	.0	.1	1.9	9.5	1.8	.0	194	.2	13.2
-1	.0	.3	4.6	8.0	1.2	.0	203	.3	13.7
-2	.0	.6	5.5	6.1	.2	.0	181	.1	12.4
-3	.0	1.2	6.6	2.9	.1	.0	156	.1	10.6
-4	.0	2.1	7.2	1.1	.0	.0	150	.1	10.3
-5	.0	1.5	3.5	.6	.1	.0	82	.0	5.7
-6	.0	1.0	2.0	.2	.0	.0	47	.0	3.2
-7/-8	.2	.8	.8	.1	.0	.0	28	.1	1.9
-9/-10	.1	.1	.0	.0	.0	.0	2	.0	.1
-11/-13	.0	.1	.1	.0	.0	.0	2	.0	.1
TOTAL	5	482	583	239	25	1449	22	1427	
PCT	.3	7.9	33.3	40.2	16.5	1.7	100.0	1.5	98.5

PERIOD: (OVER-ALL) 1963-1969

TABLE 18

PCT FREQ OF WIND SPEED (KTS) AND DIRECTION VERSUS SEA HEIGHTS (FT)

HGT	1-3	4-10	11-21	22-33	34-47	48+	PCT	NE	1-3	4-10	11-21	22-33	34-47	48+	PCT
<1	.2	.6	.0	.0	.0	.0	.8	.0	.3	.0	.0	.0	.0	.0	.5
1-2	.2	2.9	1.0	.0	.0	.0	4.1	.0	2.4	.1	.0	.0	.0	.0	2.5
3-4	.0	1.4	3.8	.3	.0	.0	5.5	.0	.9	3.0	.0	.0	.0	.0	3.9
5-6	.0	.0	2.1	.2	.0	.0	2.3	.0	.5	2.3	.0	.0	.0	.0	2.8
7	.0	.0	.6	.4	.0	.0	1.0	.0	.0	.3	.2	.0	.0	.0	.5
8-9	.0	.0	.2	.0	.0	.0	.2	.0	.0	.0	.0	.0	.0	.0	.0
10-11	.0	.0	.0	.3	.0	.0	.3	.0	.0	.0	.0	.0	.0	.0	.0
12	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
13-16	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
17-19	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
20-22	.0	.0	.0	.0	.1	.0	.1	.0	.0	.0	.0	.0	.0	.0	.0
23-25	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
26-32	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
33-40	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
41-48	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
49-60	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
61-70	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
71-86	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
87+	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
TOT PCT	.3	4.9	7.6	1.3	.1	.0	14.3	.0	4.3	5.6	.3	.0	.0	.0	10.2

HGT	1-3	4-10	11-21	22-33	34-47	48+	PCT	SE	1-3	4-10	11-21	22-33	34-47	48+	PCT
<1	.0	1.1	.0	.0	.0	.0	1.1	.0	.3	.0	.0	.0	.0	.0	.3
1-2	.0	1.3	.8	.0	.0	.0	2.1	.2	1.1	.6	.0	.0	.0	.0	1.9
3-4	.0	2.2	1.3	.0	.0	.0	3.5	.0	1.1	3.2	.0	.0	.0	.0	4.3
5-6	.0	.2	1.5	.2	.0	.0	1.8	.0	.5	1.9	.0	.0	.0	.0	2.4
7	.0	.0	.3	.3	.0	.0	.7	.0	.2	.4	.1	.0	.0	.0	.7
8-9	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.2	.0	.0	.0	.2
10-11	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
12	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
13-16	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
17-19	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
20-22	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
23-25	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
26-32	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
33-40	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
41-48	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
49-60	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
61-70	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
71-86	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
87+	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
TOT PCT	.0	4.8	3.9	.5	.0	.0	9.2	.2	3.3	6.1	.3	.0	.0	.0	9.9



PERIOD: (OVER-ALL) 1963-1969

APRIL

AREA 0014 AUSTRALIAN RIGHT SE  
36.15 132.1E

TABLE 18 (CONT)

PCT FREQ OF WIND SPEED (KTS) AND DIRECTION VERSUS SEA HEIGHTS (FT)

HGT	1-3	4-10	11-21	22-33	34-47	48+	PCT	1-3	4-10	11-21	22-33	34-47	48+	PCT
<1	.0	.0	.0	.0	.0	.0	.0	.4	.7	.0	.0	.0	.0	1.1
1-2	.0	1.0	.4	.0	.0	.0	1.4	.0	1.9	.1	.0	.0	.0	2.0
3-4	.0	1.5	3.0	.1	.0	.0	4.6	.0	1.5	2.1	.0	.0	.0	3.7
5-6	.0	1.2	1.1	.8	.0	.0	3.1	.0	.6	1.4	.5	.3	.0	2.9
7	.0	.3	.6	.1	.0	.0	1.1	.0	.0	.5	.6	.0	.0	1.1
8-9	.0	.0	.2	.0	.0	.0	.2	.0	.0	.2	.9	.0	.0	1.1
10-11	.0	.0	.0	.0	.0	.0	.0	.0	.2	.2	.2	.2	.0	.7
12	.0	.0	.0	.0	.0	.0	.0	.0	.0	.2	.2	.0	.0	.3
13-16	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.3	.0	.0	.4
17-19	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
20-22	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
23-25	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
26-32	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.2	.0	.0	.2
33-40	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
41-48	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
49-60	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
61-70	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
71-86	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
87+	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
TOT PCT	.0	4.0	5.3	1.0	.0	.0	10.4	.4	4.8	4.7	2.9	.6	.0	13.4

HGT	1-3	4-10	11-21	22-33	34-47	48+	PCT	1-3	4-10	11-21	22-33	34-47	48+	PCT	TOTAL PCT
<1	.1	.7	.0	.0	.0	.0	.8	.0	.3	.0	.0	.0	.0	.3	
1-2	.5	3.8	.7	.0	.0	.0	5.0	.0	1.8	.4	.0	.0	.0	2.2	
3-4	.0	1.8	3.5	.0	.0	.0	5.3	.0	1.0	1.5	.3	.0	.0	2.9	
5-6	.0	.1	3.8	1.0	.3	.0	5.3	.0	.0	1.3	.3	.0	.0	1.7	
7	.0	.0	1.4	1.2	.4	.0	3.0	.0	.0	.5	.2	.1	.0	.8	
8-9	.0	.0	.5	.3	.3	.0	1.2	.0	.0	.2	.3	.0	.0	.5	
10-11	.0	.0	.0	.5	.2	.0	.7	.0	.0	.0	.3	.0	.0	.3	
12	.0	.1	.0	.0	.0	.0	.1	.0	.0	.0	.2	.0	.0	.2	
13-16	.0	.0	.0	.2	.3	.0	.5	.0	.0	.0	.0	.2	.0	.2	
17-19	.0	.0	.0	.0	.3	.0	.3	.0	.0	.0	.0	.0	.0	.0	
20-22	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
23-25	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
26-32	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
33-40	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
41-48	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
49-60	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
61-70	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
71-86	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
87+	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
TOT PCT	.6	6.5	10.0	3.2	1.9	.0	22.2	.0	3.2	3.9	1.8	.3	.0	9.2	98.8

WIND SPEED (KTS) VS SEA HEIGHT (FT)

HGT	0-3	4-10	11-21	22-33	34-47	48+	PCT	TOT DBS
<1	2.7	4.5	.0	.0	.0	.0	7.2	
1-2	1.2	16.3	3.9	.0	.0	.0	21.4	
3-4	.0	11.1	21.1	.9	.0	.0	33.1	
5-6	.0	3.1	15.1	2.9	.7	.0	21.8	
7	.0	.5	4.6	3.1	.5	.0	8.7	
8-9	.0	.0	1.2	1.7	.3	.0	3.3	
10-11	.0	.2	.2	1.4	.3	.0	2.1	
12	.0	.0	.0	.3	.0	.0	.7	
13-16	.0	.0	.0	.5	.5	.0	1.0	
17-19	.0	.0	.0	.0	.3	.0	.3	
20-22	.0	.0	.0	.0	.2	.0	.2	
23-25	.0	.0	.0	.0	.0	.0	.0	
26-32	.0	.0	.0	.0	.2	.0	.2	
33-40	.0	.0	.0	.0	.0	.0	.0	
41-48	.0	.0	.0	.0	.0	.0	.0	
49-60	.0	.0	.0	.0	.0	.0	.0	
61-70	.0	.0	.0	.0	.0	.0	.0	
71-86	.0	.0	.0	.0	.0	.0	.0	
87+	.0	.0	.0	.0	.0	.0	.0	
TOT PCT	3.9	35.8	46.3	11.0	2.9	.0	100.0	583

PERIOD: (OVER-ALL) 1949-1969

TABLE 19

PERCENT FREQUENCY OF WAVE HEIGHT (FT) VS WAVE PERIOD (SECONDS)

PERIOD (SEC)	<1	1-2	3-4	5-6	7	8-9	10-11	12	13-16	17-19	20-22	23-25	26-32	33-40	41-48	49-60	61-70	71-86	87+	TOTAL	MEAN HGT
<6	1.2	4.7	6.4	3.9	1.5	.7	.5	.0	.5	.2	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	160
6-7	.0	.4	4.8	6.9	4.9	2.3	2.2	.7	1.1	.6	.1	.1	.0	.0	.0	.0	.0	.0	.0	.0	197
8-9	.0	.0	1.8	5.3	5.3	2.9	2.2	1.2	1.7	.9	.4	.0	.0	.0	.0	.0	.0	.0	.0	.0	177
10-11	.0	.0	.1	1.8	3.7	2.6	2.2	2.1	1.8	.2	.1	.0	.2	.0	.0	.0	.0	.0	.0	.0	122
12-13	.0	.0	.2	.5	1.3	1.8	.6	1.1	1.6	.1	.0	.2	.1	.0	.0	.0	.0	.0	.0	.0	63
>13	.0	.0	.0	.2	.6	.4	.5	.6	.6	.0	.5	.2	.6	.0	.0	.0	.0	.0	.0	.0	35
INDET	.0	1.0	1.7	.9	1.0	.9	1.3	.4	.4	.1	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	62
TOTAL	10	49	123	154	149	95	78	30	63	18	9	5	8	0	0	0	0	0	0	0	815
PCT	1.2	6.0	15.1	19.5	18.3	11.6	9.6	6.1	7.7	2.2	1.1	.6	1.0	.0	.0	.0	.0	.0	.0	.0	100.0

PERIOD: (PRIMARY) 1913-1972  
(OVER-ALL) 1864-1972

MAY

AREA 0014 AUSTRALIAN BIGHT SE  
36.15 132.1E

TABLE 1

PERCENT FREQUENCY OF WEATHER OCCURRENCE BY WIND DIRECTION

WIND DIR	PRECIPITATION TYPE							OTHER WEATHER PHENOMENA									
	RAIN	RAIN SHWR	DRZL	FRZG PCPN	SNOW	OTHER FRZN PCPN	HAIL	PCPN AT DB TIME	PCPN PAST HOUR	THDR LTNG	FGD WD PCPN	FGD WD PCPN PAST HR	SMOKE HAZE	SPRAY BLWG DUST	NO SIG WEA		
N	4.2	3.1	2.4	.0	.0	.0	.3	9.9	1.6	2.1	.5	.0	1.2	.0	85.4		
NE	2.6	3.5	.4	.0	.0	.0	.0	6.5	.4	.7	.0	.0	.7	.0	91.8		
E	2.7	2.7	1.1	.0	.0	.0	.0	6.6	3.6	.5	.0	.0	.0	.0	89.3		
SE	.0	8.4	3.0	.0	.0	.0	.0	11.4	2.2	.0	.0	.0	.0	.0	86.4		
S	3.0	7.1	3.0	.0	.0	.0	.3	13.4	2.6	.5	.0	.0	.0	.5	82.9		
SW	5.4	10.2	2.5	.0	.0	.0	.4	18.4	4.5	1.0	.0	.0	.0	.0	76.3		
W	4.6	7.6	1.2	.0	.0	.0	.1	13.5	5.2	1.0	.0	.0	.0	.0	80.9		
NW	3.3	4.8	1.4	.0	.0	.0	.1	9.6	4.3	2.3	.6	.0	1.8	.0	81.3		
VAR	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0		
CALM	12.5	.0	.0	.0	.0	.0	.0	12.5	.0	.0	.0	.0	.0	.0	87.5		
TOT PCT	3.8	6.2	1.8	.0	.0	.0	.2	12.1	3.4	1.2	.2	.0	.5	.1	82.9		
TOT OBS:	1732																

TABLE 2

PERCENT FREQUENCY OF WEATHER OCCURRENCE BY HOUR

HOUR (GMT)	PRECIPITATION TYPE							OTHER WEATHER PHENOMENA									
	RAIN	RAIN SHWR	DRZL	FRZG PCPN	SNOW	OTHER FRZN PCPN	HAIL	PCPN AT DB TIME	PCPN PAST HOUR	THDR LTNG	FGD WD PCPN	FGD WD PCPN PAST HR	SMOKE HAZE	SPRAY BLWG DUST	NO SIG WEA		
0000	3.0	7.9	2.0	.0	.0	.0	.2	13.1	2.4	.9	.4	.0	.9	.2	82.7		
0600	3.1	5.5	1.4	.0	.0	.0	.5	10.4	3.1	.2	.2	.0	.7	.0	85.5		
1200	4.8	5.1	2.2	.0	.0	.0	.0	12.1	3.3	2.0	.0	.0	.2	.0	82.6		
1800	5.1	5.7	2.0	.0	.0	.0	.0	12.7	5.1	2.0	.0	.0	.0	.0	80.5		
TOT PCT	3.9	6.2	1.9	.0	.0	.0	.2	12.1	3.3	1.2	.2	.0	.5	.1	82.9		
TOT OBS:	1772																

TABLE 3

PERCENTAGE FREQUENCY OF WIND DIRECTION BY SPEED AND BY HOUR

WIND DIR	WIND SPEED (KNOTS)							TOTAL OBS	PCT FREQ	MEAN SPD	HOUR (GMT)						
	0-3	4-10	11-21	22-33	34-47	48+					00	03	06	09	12	15	18
N	.8	4.8	7.1	2.4	.1	.0		15.1	14.0	15.7	14.7	15.7	18.8	14.9	13.2	14.9	.0
NE	.4	3.1	3.4	.8	.1	.0		7.9	13.0	8.0	9.7	8.2	8.3	8.0	7.6	6.1	50.0
E	.6	3.3	2.2	.2	.0	.0		6.2	10.2	6.5	7.4	4.3	.0	6.2	7.9	6.9	.0
SE	.4	3.1	2.9	.7	.0	.0		7.1	12.4	5.4	8.9	6.0	50.0	7.5	10.2	7.3	25.0
S	.4	4.0	4.7	2.0	.4	.0		11.5	15.0	10.9	12.3	12.7	.0	11.8	13.2	9.7	.0
SW	.5	4.1	6.7	3.9	1.1	.0		16.4	17.1	16.0	15.8	15.7	.0	17.0	14.8	18.1	.0
W	.7	5.1	10.5	3.6	1.2	.0		21.1	16.5	22.3	20.3	22.3	18.8	20.0	17.8	21.1	25.0
NW	.3	4.3	6.9	2.0	.3	.0		13.7	14.9	15.1	9.8	14.7	6.3	12.9	13.5	14.6	.0
VAR	.0	.0	.0	.0	.0	.0		.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
CALM	.9							.9	.0	.2	1.1	.4	.0	1.7	2.0	1.2	.0
TOT OBS	117	753	1043	368	76	1	2358		14.7	515	285	499	4	469	152	430	4
TOT PCT	5.0	31.9	44.2	15.6	3.2	*		100.0		100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0

TABLE 3A

WIND DIR	WIND SPEED (KNOTS)					TOTAL OBS	PCT FREQ	MEAN SPD	HOUR (GMT)				
	0-6	7-16	17-27	28-40	41+				00	06	12	18	21
N	2.6	6.6	5.2	.7	.0		15.1	14.0	15.3	15.8	14.5	14.8	
NE	1.6	3.8	2.2	.3	.0		7.9	13.0	8.6	8.2	7.9	6.5	
E	1.8	3.3	1.0	.0	.0		6.2	10.2	6.8	4.3	6.6	6.9	
SE	1.5	3.7	1.6	.3	.0		7.1	12.4	6.7	6.3	8.1	7.5	
S	1.7	5.5	3.0	1.3	.1		11.5	15.0	11.4	12.6	12.2	9.6	
SW	2.0	6.5	5.3	2.3	.3		16.4	17.1	15.9	15.6	16.5	18.0	
W	2.5	8.9	7.1	2.0	.5		21.1	16.5	21.6	22.3	19.5	21.1	
NW	1.7	6.4	4.5	1.1	.0		13.7	14.9	13.2	14.7	13.0	14.5	
VAR	.0	.0	.0	.0	.0		.0	.0	.0	.0	.0	.0	
CALM	.9						.9	.0	.5	.4	1.8	1.2	
TOT OBS	385	1055	705	192	21	2358		14.7	800	503	621	434	
TOT PCT	16.3	44.7	29.9	8.1	.9		100.0		100.0	100.0	100.0	100.0	

PERIOD: (PRIMARY) 1913-1972  
(OVER-ALL) 1864-1972

MAY

AREA 0014 AUSTRALIAN BIGHT SF  
36.15 132.1E

TABLE 4

PERCENTAGE FREQUENCY OF WIND SPEED BY HOUR (GMT)

WIND DIR	0-2	3-4	5-7	8 & 6	TOTAL	MEAN	000	150	300	600	1000	2000	3500	5000	6500	8000+	NH	<5/8	TOTAL
DBSCD	DBS	DBS	DBS	DBS	DBS	COVER	149	299	599	999	1999	3499	4999	6499	7999		ANY HGT	DBS	
N	4.4	2.0	5.1	3.6	4.7		.0	.0	.5	.7	2.2	1.2	.5	.0	.1	.4	9.6		
NE	1.1	1.8	2.2	2.3	5.3		.0	.0	.1	.4	1.2	.8	.2	.1	.0	.2	4.5		
E	1.1	1.2	1.6	1.0	4.8		.0	.0	.1	.8	.4	.6	.1	.0	.0	.0	2.8		
SE	1.1	.8	1.3	1.0	4.8		.1	.0	.1	.3	.6	.6	.1	.1	.0	.0	2.0		
S	.9	2.4	4.9	2.3	5.6		.0	.0	.1	.4	2.9	1.1	1.1	.2	*	.0	4.7		
SW	2.4	5.0	7.8	2.7	5.0		.0	.0	.3	1.5	3.6	2.2	1.5	*	*	*	8.7		
W	4.0	6.1	8.3	4.2	4.9		.0	.2	.2	2.4	3.5	2.1	1.0	.1	.0	.1	13.1		
NW	4.8	3.5	5.7	2.9	4.4		.1	.1	.2	1.2	1.9	1.1	.6	.0	.0	.1	11.6		
VAR	.0	.0	.0	.0	.0		.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0		
CALM	.2	.0	.1	.1	3.5		.0	.0	.0	.1	.0	.1	.0	.0	.0	.0	.2		
TOT DBS	208	240	387	210	1045	4.9	3	3	15	73	176	99	60	8	2	8	598	1045	
TOT PCT	19.9	23.0	37.0	20.1	100.0		.3	.3	1.4	7.0	16.8	9.5	5.7	.8	.2	.8	57.2	100.0	

TABLE 5

PCT FREQ OF TOTAL CLOUD AMOUNT (EIGHTHS)  
BY WIND DIRECTION

WIND DIR	0-2	3-4	5-7	8 & 6	TOTAL	MEAN
DBSCD	DBS	DBS	DBS	DBS	DBS	COVER
N	4.4	2.0	5.1	3.6	4.7	
NE	1.1	1.8	2.2	2.3	5.3	
E	1.1	1.2	1.6	1.0	4.8	
SE	1.1	.8	1.3	1.0	4.8	
S	.9	2.4	4.9	2.3	5.6	
SW	2.4	5.0	7.8	2.7	5.0	
W	4.0	6.1	8.3	4.2	4.9	
NW	4.8	3.5	5.7	2.9	4.4	
VAR	.0	.0	.0	.0	.0	
CALM	.2	.0	.1	.1	3.5	
TOT DBS	208	240	387	210	1045	4.9
TOT PCT	19.9	23.0	37.0	20.1	100.0	

TABLE 6

PERCENTAGE FREQUENCY OF CEILING HEIGHTS (FT, NH >4/8)  
AND OCCURRENCE OF NH <5/8 BY WIND DIRECTION

WIND DIR	0-2	3-4	5-7	8 & 6	TOTAL	MEAN	000	150	300	600	1000	2000	3500	5000	6500	8000+	NH	<5/8	TOTAL
DBSCD	DBS	DBS	DBS	DBS	DBS	COVER	149	299	599	999	1999	3499	4999	6499	7999		ANY HGT	DBS	
N	4.4	2.0	5.1	3.6	4.7		.0	.0	.5	.7	2.2	1.2	.5	.0	.1	.4	9.6		
NE	1.1	1.8	2.2	2.3	5.3		.0	.0	.1	.4	1.2	.8	.2	.1	.0	.2	4.5		
E	1.1	1.2	1.6	1.0	4.8		.0	.0	.1	.8	.4	.6	.1	.0	.0	.0	2.8		
SE	1.1	.8	1.3	1.0	4.8		.1	.0	.1	.3	.6	.6	.1	.1	.0	.0	2.0		
S	.9	2.4	4.9	2.3	5.6		.0	.0	.1	.4	2.9	1.1	1.1	.2	*	.0	4.7		
SW	2.4	5.0	7.8	2.7	5.0		.0	.0	.3	1.5	3.6	2.2	1.5	*	*	*	8.7		
W	4.0	6.1	8.3	4.2	4.9		.0	.2	.2	2.4	3.5	2.1	1.0	.1	.0	.1	13.1		
NW	4.8	3.5	5.7	2.9	4.4		.1	.1	.2	1.2	1.9	1.1	.6	.0	.0	.1	11.6		
VAR	.0	.0	.0	.0	.0		.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0		
CALM	.2	.0	.1	.1	3.5		.0	.0	.0	.1	.0	.1	.0	.0	.0	.0	.2		
TOT DBS	208	240	387	210	1045	4.9	3	3	15	73	176	99	60	8	2	8	598	1045	
TOT PCT	19.9	23.0	37.0	20.1	100.0		.3	.3	1.4	7.0	16.8	9.5	5.7	.8	.2	.8	57.2	100.0	

TABLE 7

CUMULATIVE PCT FREQ OF SIMULTANEOUS OCCURRENCE  
OF CEILING HEIGHT (NH >4/8) AND VSBY (NM)

CEILING (FEET)	= OR >10	= OR >5	= OR >2	= OR >1	= OR >1/2	= OR >1/4	= OR >50YD	= OR >0
= OR >5000	.8	.9	.9	.9	.9	.9	.9	.9
= OR >3000	1.6	1.7	1.7	1.8	1.8	1.8	1.8	1.8
= OR >2000	6.5	7.4	7.4	7.5	7.5	7.5	7.5	7.5
= OR >1000	14.6	16.9	17.0	17.1	17.1	17.1	17.1	17.1
= OR >600	28.7	33.6	33.6	33.7	33.7	33.7	33.7	33.7
= OR >300	33.2	39.9	40.6	40.8	40.8	40.9	40.9	40.9
= OR >150	33.6	41.1	41.8	42.2	42.2	42.3	42.3	42.3
= OR >0	33.7	41.3	42.1	42.5	42.5	42.6	42.6	42.6
TOTAL	33.9	41.7	42.5	42.9	42.9	43.0	43.0	43.0
TOTAL	360	442	451	455	455	456	456	456

TOTAL NUMBER OF OBS: 1061

PCT FREQ NH <5/8: 57.0

TABLE 7A

PERCENTAGE FREQ OF LOW CLOUDS (EIGHTHS)

0	1	2	3	4	5	6	7	8	DBSCD	TOTAL
10.1	9.1	12.8	14.6	10.0	6.6	10.5	10.0	16.3	.1	1182

PERIOD: (PRIMARY) 1913-1972  
(OVER-ALL) 1864-1972

MAY

AREA 0014 AUSTRALIAN BIGHT SE  
36.15 132.1E

TABLE 8

PERCENT FREQ OF WIND DIRECTION VS OCCURRENCE OR NON-OCCURRENCE OF  
PRECIPITATION WITH VARYING VALUES OF VISIBILITY

VSBY (NM)		N	NE	E	SE	S	SW	W	NW	VAR	CALM	PCT	TOTAL OBS
<1/2	PCP	.1	.0	.0	.0	.0	.0	.0	.0	.0	.0	.1	
	NO PCP	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
	TOT %	.1	.0	.0	.0	.0	.0	.0	.0	.0	.0	.1	
1/2<1	PCP	*	*	.0	.0	.0	*	*	.0	.0	.0	.1	
	NO PCP	.1	.0	.0	.0	.0	.0	*	*	.0	.0	.1	
	TOT %	.1	*	.0	.0	.0	*	*	.0	.0	.0	.2	
1<2	PCP	*	.0	.0	.0	.0	.1	.0	.1	.0	.0	.2	
	NO PCP	.1	.1	.0	*	*	*	*	.1	.0	.0	.3	
	TOT %	.1	.1	.0	*	*	.1	*	.2	.0	.0	.5	
2<5	PCP	*	.0	.0	.0	.1	.0	.3	.1	.0	.0	.5	
	NO PCP	.0	.1	.1	.0	.0	.1	.2	.0	.0	.0	.3	
	TOT %	*	.1	.1	.0	.1	.1	.4	.1	.0	.0	.9	
5<10	PCP	1.3	.4	.3	.6	1.0	2.1	1.6	.7	.0	.1	7.9	
	NO PCP	5.6	2.3	1.7	2.7	3.0	3.0	4.7	3.1	.0	.1	26.2	
	TOT %	6.8	2.7	2.0	3.3	3.9	5.1	6.3	3.8	.0	.1	34.1	
10+	PCP	.3	.1	.0	.1	.4	.9	1.0	.5	.0	.0	3.2	
	NO PCP	9.4	5.3	3.2	2.4	6.1	10.3	14.2	9.7	.0	.3	60.9	
	TOT %	9.7	5.4	3.2	2.5	6.5	11.1	15.2	10.2	.0	.3	64.2	
TOT OBS													
TOT PCT													
		16.8	8.2	5.3	5.8	10.5	16.4	22.0	14.4	.0	.5	100.0	1728

TABLE 9

PERCENT FREQ OF WIND DIRECTION VS WIND SPEED  
WITH VARYING VALUES OF VISIBILITY

VSBY (NM)	SPD KTS	N	NE	E	SE	S	SW	W	NW	VAR	CALM	PCT	TOTAL OBS
<1/2	0-3	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
	4-10	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
	11-21	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
	22+	.1	.0	.0	.0	.0	.0	.0	.0	.0	.0	.1	
	TOT %	.1	.0	.0	.0	.0	.0	.0	.0	.0	.0	.1	
1/2<1	0-3	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
	4-10	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
	11-21	.1	.0	.0	.0	.0	.0	.0	*	.0	.0	.1	
	22+	*	*	.0	.0	.0	*	*	.0	.0	.0	.1	
	TOT %	.1	*	.0	.0	.0	*	*	.0	.0	.0	.2	
1<2	0-3	.0	.0	.0	*	*	.0	.0	.0	.0	.0	.1	
	4-10	.1	.1	.0	.0	.0	.0	.0	.0	.0	.0	.1	
	11-21	*	.0	.0	.0	.0	.0	.0	.1	.0	.0	.1	
	22+	.0	.0	.0	.0	.0	.1	*	.1	.0	.0	.2	
	TOT %	.1	.1	.0	*	*	.1	*	.2	.0	.0	.5	
2<5	0-3	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
	4-10	.0	.0	.1	.0	.0	.0	.1	.0	.0	.0	.1	
	11-21	.0	.0	.0	.0	.0	.1	.2	*	.0	.0	.3	
	22+	*	.1	.0	.0	.1	*	.2	.1	.0	.0	.5	
	TOT %	*	.1	.1	.0	.1	.1	.5	.1	.0	.0	1.0	
5<10	0-3	.3	.0	.1	.2	.0	.2	.2	.1	.0	.2	1.1	
	4-10	1.8	1.3	1.1	1.0	1.1	1.2	1.1	1.1	.0	.0	9.6	
	11-21	3.0	.9	.7	1.5	1.8	1.5	2.2	1.7	.0	.0	13.3	
	22+	1.3	.4	*	.5	1.1	2.1	2.5	.7	.0	.0	8.6	
	TOT %	6.4	2.5	2.0	3.2	4.0	5.0	6.0	3.5	.0	.2	32.6	
10+	0-3	.4	.3	.2	.3	.3	.3	.3	.1	.0	.4	2.5	
	4-10	3.1	2.0	1.8	1.7	2.5	2.7	3.8	2.9	.0	.0	20.6	
	11-21	4.8	2.5	1.2	1.0	2.8	4.9	8.6	5.6	.0	.0	31.4	
	22+	1.2	.6	.1	.2	1.4	3.5	2.8	1.5	.0	.0	11.2	
	TOT %	9.5	5.4	3.2	3.1	6.9	11.4	15.6	10.1	.0	.4	65.7	
TOT OBS													
TOT PCT													
		16.1	8.0	5.2	6.3	11.0	16.5	22.2	14.0	.0	.6	100.0	1854

MAY

PERIOD: (PRIMARY) 1913-1972  
(OVER-ALL) 1864-1972AREA 0014 AUSTRALIAN BIGHT SE  
36.15 132.1E

TABLE 10

PERCENT FREQUENCY OF CEILING HEIGHTS (FEET, NH > 4/8) AND  
OCCURRENCE OF NH < 5/8 BY HOUR

HR	000	150	300	600	1000	2000	3500	5000	6500	8000+	TOTAL	NH < 5/8 ANY HGT	TOTAL OBS
(GMT)	149	299	599	999	1999	3499	4999	6499	7999				
00003	.0	.3	.6	6.7	15.0	8.9	7.3	.0	.3	.6	40.4	59.6	314
06009	.0	.7	1.6	6.5	18.2	8.8	6.2	1.3	.0	1.0	44.3	55.7	307
12015	.8	.0	.8	6.5	16.0	9.9	3.8	.8	.4	.0	38.9	61.1	262
18021	.8	.0	2.5	7.4	13.9	8.6	3.7	.4	.0	1.2	38.5	61.5	244
TOT	4	3	15	76	179	102	61	9	2	8	459	668	1127
PCT	.4	.3	1.3	6.7	15.9	9.1	5.4	.8	.2	.7	40.7	59.3	100.0

TABLE 11

PERCENT FREQUENCY VS BY (NH) BY HOUR

HR	<1/2	1/2<1	1<2	2<5	5<10	10+	TOTAL
(GMT)							OBS
00003	.0	.5	.9	1.6	35.4	61.7	579
06009	.2	.2	.2	.7	28.2	70.4	439
12015	.0	.2	.2	.8	36.9	61.9	501
18021	.0	.0	.5	.5	27.7	71.2	375
TOT	1	5	9	18	618	1243	1894
PCT	.1	.3	.5	1.0	32.6	65.6	100.0

TABLE 12

CUMULATIVE PCT FREQ OF RANGES OF VS BY (NH) AND/OR  
CEILING HGT (FEET, NH > 4/8), BY HOUR

HR	<150	<600	<1000	1000+	NH < 5/8	TOTAL
(GMT)	<5000	<1	<5	AND 5+	AND 5+	OBS
00003	.0	1.0	8.8	34.2	56.9	295
06009	.0	2.7	9.2	37.1	53.7	294
12015	.8	1.6	8.5	32.1	59.3	246
18021	.9	3.5	11.5	29.6	58.8	226
TOT	4	23	100	355	605	1061
PCT	.4	2.2	9.4	33.5	57.0	100.0

TABLE 13

PERCENT FREQUENCY OF RELATIVE HUMIDITY BY TEMP

TEMP F	0-29	30-39	40-49	50-59	60-69	70-79	80-89	90-100	TOTAL	PCT
									OBS	FREQ
65/69	.0	.0	.1	.1	.3	2.8	1.9	.4	72	5.5
60/64	.0	.0	.0	.8	3.6	12.6	17.8	5.9	528	40.6
55/59	.0	.0	.0	2.0	8.8	15.5	15.2	4.8	601	46.3
50/54	.0	.0	.0	.3	1.8	1.8	2.6	1.0	97	7.5
45/49	.0	.0	.0	.0	.0	.0	.0	.1	1	.1
TOTAL	0	0	1	41	188	424	487	158	1299	100.0
PCT	.0	.0	.1	3.2	14.5	32.6	37.5	12.2		

TABLE 14

PERCENT FREQUENCY OF WIND DIRECTION BY TEMP

N	NE	E	SE	S	SW	W	NW	VAR	CALM
2.3	.9	.1	.0	.2	.2	.9	1.1	.0	.0
11.6	5.4	1.8	.8	1.1	2.8	7.9	9.1	.0	.1
3.3	2.8	2.5	3.2	6.8	10.8	13.0	3.5	.0	.3
.2	.8	.1	.7	2.3	2.9	1.0	.2	.0	.1
.0	.0	.0	.0	.1	.0	.0	.0	.0	.0
17.4	9.2	4.4	4.7	10.5	16.7	22.7	13.9	.0	.5

TABLE 15

MEANS, EXTREMES AND PERCENTILES OF TEMP (DEG F) BY HOUR

HR	MAX	99%	95%	50%	5%	1%	MIN	MEAN	TOTAL
(GMT)									OBS
00003	70	67	65	60	54	52	50	59.8	793
06009	69	67	65	60	54	51	49	60.0	501
12015	71	67	64	58	54	51	50	58.6	634
18021	68	65	63	58	53	52	48	58.1	442
TOT	71	67	65	59	54	51	48	59.2	2370

TABLE 16

PERCENT FREQUENCY OF RELATIVE HUMIDITY BY HOUR

HR	0-29	30-39	60-69	70-79	80-89	90-100	MEAN	TOTAL
(GMT)								OBS
00003	.0	2.8	14.2	31.9	40.2	10.9	79	386
06009	.0	4.3	14.7	34.6	36.7	9.8	78	327
12015	.0	2.7	15.9	31.1	35.3	15.0	79	334
18021	.0	4.0	13.4	34.4	35.9	12.3	79	276
TOT	0	45	193	435	492	158	79	1323



PERIOD: (PRIMARY) 1913-1972  
(OVER-ALL) 1864-1972

MAY

AREA 0014 AUSTRALIAN BIGHT SF  
36.15 132.1F

TABLE 17

PCT FREQ OF AIR TEMPERATURE (DEG F) AND THE OCCURRENCE OF FOG (WITHOUT PRECIPITATION)  
VS AIR-SEA TEMPERATURE DIFFERENCE (DEG F)

AIR-SEA TMP DIF	49 52	53 56	57 60	61 64	65 68	69 72	TOT	W FOG	W0 FOG
7/8	.0	.0	.1	.1	.2	.0	6	.0	.4
6	.0	.0	.0	.0	.2	.1	4	.0	.3
5	.0	.0	.1	.3	.2	.1	10	.0	.7
4	.0	.0	.1	.4	1.3	.0	27	.0	1.8
3	.0	.1	.4	2.1	1.1	.0	54	.0	3.6
2	.1	.1	1.5	4.9	1.0	.0	114	.1	7.4
1	.0	.2	3.7	6.4	.5	.0	162	.0	10.8
0	.0	.5	6.2	9.4	.3	.0	186	.0	12.4
-1	.0	1.0	8.9	3.7	.1	.0	206	.1	13.6
-2	.0	2.3	7.4	2.3	.0	.0	182	.0	12.1
-3	.1	2.9	7.1	.7	.1	.0	163	.0	10.8
-4	.1	4.0	5.7	.7	.0	.0	158	.0	10.5
-5	.3	3.3	2.3	.2	.0	.0	91	.0	6.0
-6	.5	2.5	1.4	.2	.0	.0	69	.0	4.6
-7/-8	.6	1.6	1.3	.0	.0	.0	53	.0	3.5
-9/-10	.2	.6	.1	.0	.0	.0	14	.0	.9
-11/-13	.3	.0	.0	.0	.0	.0	4	.0	.3
-14/-16	.1	.0	.0	.0	.0	.0	2	.0	.1
TOTAL	34	285	699	412	73	2	1505	3	1502
PCT	2.3	18.9	46.4	27.4	4.9	.1	100.0	.2	99.8

PERIOD: (OVER-ALL) 1963-1972

TABLE 18

PCT FREQ OF WIND SPEED (KTS) AND DIRECTION VERSUS SEA HEIGHTS (FT)

HGT	N						PCT	NE						PCT
	1-3	4-10	11-21	22-33	34-47	48+		1-3	4-10	11-21	22-33	34-47	48+	
<1	.2	.0	.0	.0	.0	.0	.2	.0	.3	.0	.0	.0	.0	.3
1-2	.0	2.7	.6	.0	.0	.0	3.3	.3	.8	.5	.0	.0	.0	1.7
3-4	.0	1.4	3.2	.4	.0	.0	5.0	.0	.5	2.0	.6	.0	.0	3.2
5-6	.0	.2	3.8	.5	.0	.0	4.4	.0	.0	.8	.7	.3	.0	1.8
7	.0	.0	1.3	.9	.0	.0	2.2	.0	.0	.7	.0	.0	.0	.7
8-9	.0	.0	.5	.6	.0	.0	1.0	.0	.0	.5	.4	.0	.0	.9
10-11	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
12	.0	.0	.0	.3	.0	.0	.3	.0	.0	.0	.0	.0	.0	.0
13-16	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
17-19	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
20-22	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
23-25	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
26-32	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
33-40	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
41-48	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
49-60	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
61-70	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
71-86	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
87+	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
TOT PCT	.2	4.3	9.4	2.7	.0	.0	16.5	.3	1.7	4.6	1.6	.3	.0	8.5

HGT	E						PCT	SE						PCT
	1-3	4-10	11-21	22-33	34-47	48+		1-3	4-10	11-21	22-33	34-47	48+	
<1	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
1-2	.0	1.2	.2	.0	.0	.0	1.4	.0	1.0	.0	.0	.0	.0	1.0
3-4	.0	.0	.9	.0	.0	.0	.9	.0	.7	.9	.0	.0	.0	1.6
5-6	.0	.3	.5	.0	.0	.0	.8	.0	.2	.7	.0	.0	.0	1.0
7	.0	.0	.5	.0	.0	.0	.5	.0	.0	.2	.2	.0	.0	.4
8-9	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
10-11	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
12	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
13-16	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
17-19	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
20-22	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
23-25	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
26-32	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
33-40	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
41-48	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
49-60	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
61-70	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
71-86	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
87+	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
TOT PCT	.0	1.5	2.0	.0	.0	.0	3.5	.7	1.9	1.8	.2	.0	.0	3.9

PERIOD: (OVER-ALL) 1963-1972

MAY

AREA 0014 AUSTRALIAN RIGHT SE  
36.1S 132.1E

TABLE 18 (CONT)

PCT FREQ OF WIND SPEED (KTS) AND DIRECTION VERSUS SEA HEIGHTS (FT)

HGT	1-3	4-10	11-21	22-33	34-47	48+	PCT	1-3	4-10	11-21	22-33	34-47	48+	PCT
<1	.0	.3	.0	.0	.0	.0	.3	.2	.2	.0	.0	.0	.0	.4
1-2	.3	1.4	.2	.0	.0	.0	1.9	.0	.6	.2	.0	.0	.0	.8
3-4	.0	.4	.8	.5	.0	.0	1.7	.0	2.2	2.9	.0	.0	.0	5.1
5-6	.0	.0	1.4	.6	.0	.0	2.0	.0	.2	3.0	.2	.2	.0	3.6
7	.0	.0	.5	.7	.2	.0	1.4	.0	.0	1.2	1.6	.0	.0	2.9
8-9	.0	.0	.6	.6	.0	.0	1.2	.0	.0	.2	.9	.2	.0	1.3
10-11	.0	.0	.0	.3	.0	.0	.3	.0	.0	.2	.3	.2	.0	.7
12	.0	.0	.0	.1	.0	.0	.1	.0	.0	.2	.4	.0	.0	.5
13-16	.0	.0	.0	.3	.0	.0	.3	.0	.0	.0	.3	.2	.0	.5
17-19	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
20-22	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.2	.0	.2
23-25	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
26-32	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
33-40	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
41-48	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
49-60	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
61-70	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
71-86	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
87+	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
TOT PCT	.3	2.0	3.5	3.2	.2	.0	9.2	.2	3.3	8.0	3.8	.9	.0	16.1

HGT	1-3	4-10	11-21	22-33	34-47	48+	PCT	1-3	4-10	11-21	22-33	34-47	48+	PCT	TOTAL PCT
<1	.0	.3	.0	.0	.0	.0	.5	.0	.2	.2	.0	.0	.0	.4	
1-2	.2	1.9	1.1	.0	.0	.0	3.2	.2	2.2	1.7	.0	.0	.0	4.1	
3-4	.0	2.6	5.3	.5	.0	.0	8.4	.0	1.6	3.2	.4	.0	.0	5.2	
5-6	.0	.1	5.3	.8	.0	.0	6.3	.0	.0	2.9	1.0	.0	.0	3.9	
7	.0	.2	2.8	.8	.1	.0	3.9	.0	.0	1.9	.4	.0	.0	2.3	
8-9	.0	.0	.9	.3	.0	.0	1.2	.0	.0	.3	.7	.0	.0	1.0	
10-11	.0	.0	.1	.6	.0	.0	.7	.0	.0	.0	.2	.0	.0	.2	
12	.0	.0	.0	.0	.2	.0	.2	.0	.0	.0	.0	.2	.0	.2	
13-16	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
17-19	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
20-22	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
23-25	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
26-32	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
33-40	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
41-48	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
49-60	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
61-70	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
71-86	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
87+	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
TOT PCT	.3	5.1	15.4	3.1	.3	.0	24.3	.2	3.9	10.2	2.7	.2	.0	17.2	99.2

WIND SPEED (KTS) VS SEA HEIGHT (FT)

HGT	0-3	4-10	11-21	22-33	34-47	48+	PCT	TOT OBS
<1	1.3	1.3	.2	.0	.0	.0	2.8	
1-2	1.0	11.8	4.5	.0	.0	.0	17.2	
3-4	.0	9.5	19.2	2.3	.0	.0	31.0	
5-6	.0	1.0	18.4	3.8	.5	.0	23.7	
7	.0	.2	9.1	4.6	.3	.0	14.3	
8-9	.0	.0	3.0	3.5	.2	.0	6.6	
10-11	.0	.0	.3	1.5	.2	.0	2.0	
12	.0	.0	.2	.8	.3	.0	1.3	
13-16	.0	.0	.0	.7	.2	.0	.8	
17-19	.0	.0	.0	.0	.0	.0	.0	
20-22	.0	.0	.0	.0	.2	.0	.2	
23-25	.0	.0	.0	.0	.0	.0	.0	
26-32	.0	.0	.0	.0	.0	.0	.0	
33-40	.0	.0	.0	.0	.0	.0	.0	
41-48	.0	.0	.0	.0	.0	.0	.0	
49-60	.0	.0	.0	.0	.0	.0	.0	
61-70	.0	.0	.0	.0	.0	.0	.0	
71-86	.0	.0	.0	.0	.0	.0	.0	
87+	.0	.0	.0	.0	.0	.0	.0	
TOT PCT	2.3	23.7	54.9	17.2	1.8	.0	100.0	603

PERIOD: (OVER-ALL) 1949-1972

TABLE 19

PERCENT FREQUENCY OF WAVE HEIGHT (FT) VS WAVE PERIOD (SECONDS)

PERIOD (SEC)	<1	1-2	3-4	5-6	7	8-9	10-11	12	13-16	17-19	20-22	23-25	26-32	33-40	41-48	49-60	61-70	71-86	87+	TOTAL	MEAN HGT
<6	.4	3.0	5.2	3.3	2.4	.7	.4	.2	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	14.2
6-7	.0	.4	3.4	5.6	5.2	2.9	2.5	.5	1.3	.1	.3	.0	.0	.0	.0	.0	.0	.0	.0	.0	203
8-9	.0	.0	.9	4.5	4.3	5.4	4.1	2.9	2.3	.4	.0	.2	.0	.0	.0	.0	.0	.0	.0	.0	227
10-11	.0	.1	.3	.7	3.0	4.2	3.5	1.4	1.9	.8	.4	.3	.3	.0	.0	.0	.0	.0	.0	.0	154
12-13	.0	.0	.2	.5	.7	.5	1.2	1.1	1.9	.4	.5	.0	.0	.0	.0	.0	.0	.0	.0	.0	65
>13	.0	.0	.0	.5	.8	.1	.4	.4	.7	.4	.2	.0	.2	.0	.0	.0	.0	.0	.0	.0	35
INDET	.2	.7	1.9	.4	1.5	1.5	1.5	.8	.3	.2	.1	.0	.0	.0	.0	.0	.0	.0	.0	.0	84
TOTAL	6	38	108	142	162	139	125	67	76	22	15	5	5	0	0	0	0	0	0	0	910
PCT	.7	4.2	11.9	15.6	17.8	15.3	13.7	7.4	8.4	2.4	1.6	.5	.5	.0	.0	.0	.0	.0	.0	.0	100.0

PERIOD: (PRIMARY) 1912-1969  
(OVER-ALL) 1859-1969

JUNE

AREA 0014 AUSTRALIAN BIGHT SE  
36.15 132.1E

TABLE 1

PERCENT FREQUENCY OF WEATHER OCCURRENCE BY WIND DIRECTION

WIND DIR	PRECIPITATION TYPE							OTHER WEATHER PHENOMENA							
	RAIN	RAIN SHWR	DRZL	FRZG PCPN	SNOW	OTHER FRZN PCPN	HAIL	PCPN AT DB TIME	PCPN PAST HOUR	THDR LTNG	FGG WD PCPN	FGG WD PCPN PAST HR	SMOKE HAZE	SPRAY BLWG DUST	NO SIG WEA
N	4.0	3.3	3.6	.0	.0	.0	.0	10.9	1.1	1.1	1.7	.0	.2	.0	84.9
NE	3.3	7.0	2.5	.0	.0	.0	.0	12.7	2.9	1.6	1.2	.0	.0	.0	82.4
E	1.9	3.7	1.9	.0	.0	.0	.0	7.5	2.3	.0	1.9	.0	.0	.0	88.3
SE	2.9	8.8	4.9	.0	.0	.0	.0	16.5	1.2	.0	.0	.0	.0	.0	82.2
S	4.8	11.5	1.0	.0	.0	.0	.0	17.2	2.9	.0	1.3	.0	.0	.0	78.6
SW	3.6	7.4	1.6	.0	.0	.0	.0	12.5	3.1	.0	1.3	.0	.0	.0	83.0
W	5.0	8.0	2.8	.0	.0	.0	.0	15.8	6.6	.4	.0	.0	.0	.0	77.3
NW	2.5	6.1	2.0	.0	.0	.0	.0	10.6	2.4	1.1	.2	.0	1.4	.0	84.4
VAR	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
CALM	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	14.3	.0	.0	.0	85.7
TOT PCT	3.6	6.7	2.5	.0	.0	.0	.0	12.8	3.0	.6	1.0	.0	.3	.0	82.4
TOT OBS:	1535														

TABLE 2

PERCENT FREQUENCY OF WEATHER OCCURRENCE BY HOUR

HOUR (GMT)	PRECIPITATION TYPE							OTHER WEATHER PHENOMENA							
	RAIN	RAIN SHWR	DRZL	FRZG PCPN	SNOW	OTHER FRZN PCPN	HAIL	PCPN AT DB TIME	PCPN PAST HOUR	THDR LTNG	FGG WD PCPN	FGG WD PCPN PAST HR	SMOKE HAZE	SPRAY BLWG DUST	NO SIG WEA
00003	2.2	6.2	2.7	.0	.0	.0	.0	11.1	2.2	.0	1.3	.0	.2	.0	85.2
06009	3.3	7.6	2.3	.0	.0	.0	.0	13.2	4.3	.3	.3	.0	.3	.0	81.7
12015	4.8	7.5	2.3	.0	.0	.0	.0	14.5	2.8	.5	1.3	.0	.3	.0	81.0
18021	4.4	4.8	2.5	.0	.0	.0	.0	11.7	2.9	1.9	1.3	.0	.3	.0	81.9
TOT PCT	3.6	6.6	2.4	.0	.0	.0	.0	12.6	3.0	.6	1.0	.0	.3	.0	82.6
TOT OBS:	1561														

TABLE 3

PERCENTAGE FREQUENCY OF WIND DIRECTION BY SPEED AND BY HOUR

WIND DIR	WIND SPEED (KNOTS)							48+	TOTAL OBS	PCT FREQ	MEAN SPD	HOUR (GMT)						
	0-3	4-10	11-21	22-33	34-47	00	03					06	09	12	15	18	21	
N	.6	3.7	9.5	3.1	.5	*		17.5	16.0		16.8	17.6	16.4	20.5	16.2	16.4	21.2	22.2
NE	.3	2.9	3.5	.9	.2	*		7.8	13.9		6.8	7.5	7.5	18.2	7.7	10.1	8.1	22.2
E	.3	3.6	2.6	.4	*	.0		6.9	11.1		7.8	8.1	7.0	.0	7.6	4.2	5.6	.0
SE	.4	3.2	2.4	.7	*	.0		6.6	12.0		6.4	4.9	6.2	9.1	7.9	6.3	7.0	11.1
S	.2	3.5	5.1	1.3	.1	*		10.2	14.2		9.0	11.8	9.9	.0	10.6	10.5	11.0	.0
SW	.3	4.6	6.5	2.5	1.0	.0		14.9	16.3		15.1	17.3	15.4	18.2	15.5	15.4	11.7	11.1
W	.6	5.0	7.3	4.0	1.3	*		18.2	17.2		18.8	15.1	20.0	13.6	17.7	18.2	18.0	22.2
NW	.3	4.5	8.2	3.5	.5	*		17.0	16.3		18.6	16.9	17.3	20.5	15.8	16.1	16.9	11.1
VAR	.0	.0	.0	.0	.0	.0		.0	.0		.0	.0	.0	.0	.0	.0	.0	.0
CALM	.8							.8	.0		.7	.8	.4	.0	1.0	2.8	.5	.0
TOT OBS	78	635	920	334	77	4	2048		15.2		421	249	451	11	395	143	369	9
TOT PCT	3.8	31.0	44.9	16.3	3.8	.2		100.0			100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0

TABLE 3A

WIND DIR	WIND SPEED (KNOTS)							TOTAL OBS	PCT FREQ	MEAN SPD	HOUR (GMT)				
	0-6	7-16	17-27	28-40	41+						00	06	12	18	21
N	2.1	7.2	6.8	1.3	.1			17.5	16.0		17.1	15.5	16.3	21.2	
NE	1.1	3.7	2.5	.4	*			7.8	13.9		7.1	7.7	8.4	8.5	
E	1.8	3.7	1.2	.1	.0			6.9	11.1		7.9	6.8	6.7	5.4	
SE	1.5	3.4	1.6	.2	.0			6.6	12.0		5.9	6.2	7.5	7.1	
S	1.1	5.8	2.9	.5	.1			10.2	14.2		10.1	9.7	10.5	10.8	
SW	1.9	6.5	4.5	1.6	.4			14.9	16.3		15.9	15.4	15.5	11.6	
W	2.2	7.0	6.1	2.6	.3			18.2	17.2		17.4	19.8	17.8	18.1	
NW	1.7	7.6	5.9	1.7	.2			17.0	16.3		17.9	17.4	15.8	16.7	
VAR	.0	.0	.0	.0	.0			.0	.0		.0	.0	.0	.0	
CALM	.8							.8	.0		.7	.4	1.5	.5	
TOT OBS	291	919	644	171	23	2048			15.2		670	462	538	378	
TOT PCT	14.2	44.9	31.4	8.3	1.1			100.0			100.0	100.0	100.0	100.0	

PERIOD: (PRIMARY) 1912-1969  
(OVER-ALL) 1859-1969

JUNE

AREA 0014 AUSTRALIAN BIGHT SE  
36.15 132.1E

TABLE 4

PERCENTAGE FREQUENCY OF WIND SPEED BY HOUR (GMT)

HOUR	CALM	1-3	4-10	WIND SPEED (KNOTS)			48+	MEAN	PCT FREQ	TOTAL OBS
				11-21	22-33	34-47				
00003	.7	3.9	29.6	45.4	17.0	3.3	.1	15.1	100.0	670
06009	.4	1.7	30.7	42.9	19.0	5.2	.0	16.1	100.0	462
12015	1.5	3.2	32.5	44.4	14.1	3.9	.4	14.8	100.0	538
18021	.5	2.6	31.7	47.4	14.8	2.6	.3	14.9	100.0	378
TOT	17	61	635	920	334	77	4	15.2		2048
PCT	.8	3.0	31.0	44.9	16.3	3.8	.2	100.0		

TABLE 5

PCT FREQ OF TOTAL CLOUD AMOUNT (EIGHTHS)  
BY WIND DIRECTION

WIND DIR	0-2	3-4	5-7	8 & OBSCD	TOTAL OBS	MEAN CLOUD COVER
N	2.8	2.7	6.0	5.0		5.3
NE	1.8	1.5	3.1	1.6		4.8
E	1.2	1.9	2.7	1.9		5.1
SE	.6	1.1	3.0	2.4		5.9
S	1.2	2.6	3.9	1.9		5.2
SW	2.5	5.1	5.7	1.4		4.5
W	3.7	4.6	6.7	2.9		4.7
NW	4.8	2.9	6.3	3.9		4.7
VAR	.0	.0	.0	.0		.0
CALM	.2	.0	.1	.1		4.2
TOT OBS	177	213	354	198	942	4.9
TOT PCT	18.8	22.6	37.6	21.0	100.0	

TABLE 6

PERCENTAGE FREQUENCY OF CEILING HEIGHTS (FT, NH >4/E)  
AND OCCURRENCE OF NH <5/8 BY WIND DIRECTION

AND OCCURRENCE OF NH <5/8 BY WIND DIRECTION											
000	150	300	600	1000	2000	3500	5000	6500	8000+	NH <5/8	TOTAL
149	299	599	999	1999	3499	4999	6499	7999		ANY HGT	OBS
.0	.0	.2	2.0	2.2	1.7	.8	.1	.2	.1	9.1	
.0	.1	.0	.2	1.1	.7	.4	.2	.0	.1	5.2	
.0	.0	.0	.4	1.3	1.0	.7	.1	.0	.0	4.2	
.0	.0	.0	1.0	1.5	1.4	.6	.2	.0	.0	2.4	
.1	.0	.2	.7	1.9	1.2	.2	.1	.1	.0	5.0	
.0	.0	.1	.7	2.8	1.0	.4	.2	.0	.0	9.7	
.1	.0	.0	1.4	4.0	.7	.5	.1	.0	.0	11.1	
*	.0	.3	1.9	2.7	1.0	.3	.3	.0	.1	11.3	
.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
.0	.0	.0	.1	.0	.0	.0	.1	.0	.0	.2	
2	1	8	80	166	82	38	11	3	3	548	
.2	.1	.8	8.5	17.6	8.7	4.0	1.2	.3	.3	58.2	100.3

TABLE 7

CUMULATIVE PCT FREQ OF SIMULTANEOUS OCCURRENCE  
OF CEILING HEIGHT (NH >4/8) AND VSBY (NM)

CEILING (FEET)	VSBY (NM)							
	>10	>5	>2	>1	>1/2	>1/4	>50YD	>0
>6500	.5	.5	.6	.6	.6	.6	.6	.6
>5000	1.7	1.8	1.9	1.9	1.9	1.9	1.9	1.9
>3500	5.3	6.0	6.2	6.2	6.2	6.2	6.2	6.2
>2000	12.9	14.7	15.0	15.0	15.0	15.0	15.0	15.0
>1000	26.1	31.8	32.5	32.5	32.6	32.6	32.6	32.6
>500	30.9	39.9	40.7	40.8	40.9	40.9	40.9	40.9
>300	31.4	40.7	41.7	41.8	41.9	41.9	41.9	41.9
>150	31.4	40.8	41.8	41.9	42.0	42.0	42.0	42.0
>0	31.4	41.0	42.0	42.1	42.2	42.2	42.2	42.2
TOTAL	300	392	401	402	403	403	403	403

TOTAL NUMBER OF OBS: 955

PCT FREQ NH <5/8: 57.8

TABLE 7A

PERCENTAGE FREQ OF LOW CLOUDS (EIGHTHS)

0	1	2	3	4	5	6	7	8	OBSCD	TOTAL OBS
7.6	10.7	11.2	14.2	13.0	7.8	10.4	8.7	16.3	.1	1045

PERIOD: (PRIMARY) 1912-1969  
(OVER-ALL) 1859-1969

JUNE

AREA 0014 AUSTRALIAN BIGHT SE  
36.15 132.1E

TABLE 8

PERCENT FREQ OF WIND DIRECTION VS OCCURRENCE OR NON-OCCURRENCE OF  
PRECIPITATION WITH VARYING VALUES OF VISIBILITY

VSBY (NM)		N	NE	E	SE	S	SW	W	NW	VAR	CALM	PCT	TOTAL OBS
<1/2	PCP	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
	NO PCP	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
	TOT %	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
1/2<1	PCP	.1	.0	.0	.0	.0	.0	*	*	.0	.0	.1	
	NO PCP	.2	.1	.0	.0	.0	.0	.0	*	.0	.1	.4	
	TOT %	.3	.1	.0	.0	.0	.0	*	.1	.0	.1	.5	
1<2	PCP	.0	.0	.0	.1	.0	.0	.0	.0	.0	.0	.1	
	NO PCP	*	.0	.0	.0	.0	.0	.0	*	.0	.0	.1	
	TOT %	*	.0	.0	.1	.0	.0	.0	*	.0	.0	.1	
2<5	PCP	.2	.0	.1	.1	.0	.0	.0	.0	.0	.0	.4	
	NO PCP	.1	.0	.0	.0	.0	.1	*	.1	.0	.0	.3	
	TOT %	.3	.0	.1	.1	.0	.1	*	.1	.0	.0	.7	
5<10	PCP	1.4	.7	.3	.7	1.3	1.5	2.1	1.3	.0	.0	9.3	
	NO PCP	6.7	2.1	1.8	1.6	3.0	3.7	5.0	4.6	.0	.1	28.6	
	TOT %	8.0	2.8	2.1	2.3	4.3	5.2	7.1	5.9	.0	.1	37.9	
10+	PCP	.4	.3	.1	.2	.5	.3	.6	.4	.0	.0	2.9	
	NO PCP	9.6	4.7	4.7	4.0	5.5	9.0	9.8	10.3	.0	.3	57.9	
	TOT %	10.0	5.1	4.8	4.2	5.9	9.3	10.5	10.8	.0	.3	60.8	
TOT OBS													
TOT PCT													
		18.6	7.9	7.0	6.7	10.2	14.6	17.6	16.9	.0	.5	100.0	1534

TABLE 9

PERCENT FREQ OF WIND DIRECTION VS WIND SPEED  
WITH VARYING VALUES OF VISIBILITY

VSBY (NM)	SPD KTS	N	NE	E	SE	S	SW	W	NW	VAR	CALM	PCT	TOTAL OBS
<1/2	0-3	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
	4-10	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
	11-21	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
	22+	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
	TOT %	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
1/2<1	0-3	.0	.0	.0	.0	.0	.0	.0	.0	.0	.1	.1	
	4-10	.0	.1	.0	.0	.0	.0	*	*	.0	.0	.1	
	11-21	.3	.0	.0	.0	.0	.0	.0	*	.0	.0	.3	
	22+	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
	TOT %	.3	.1	.0	.0	.0	.0	*	.1	.0	.1	.5	
1<2	0-3	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
	4-10	.0	.0	.0	.1	.0	.0	.0	.0	.0	.0	.1	
	11-21	*	.0	.0	.0	.0	.0	.0	*	.0	.0	.1	
	22+	.0	.0	.0	.0	.0	*	*	.0	.0	.0	.1	
	TOT %	*	.0	.0	.1	.0	*	*	*	.0	.0	.2	
2<5	0-3	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
	4-10	.1	.0	.1	.1	.0	.0	.0	.1	.0	.0	.3	
	11-21	.3	.0	.0	.0	.0	.1	.0	.1	.0	.0	.4	
	22+	.1	.0	*	*	.0	*	*	.1	*	.0	.2	
	TOT %	.5	.0	.1	.1	.0	.1	.1	.1	.0	.0	1.0	
5<10	0-3	.4	.0	*	.1	.1	*	.2	.1	.0	.1	1.1	
	4-10	1.0	.8	1.1	.9	1.0	1.0	1.5	1.2	.0	.0	8.6	
	11-21	4.5	1.5	.7	.8	2.5	2.6	2.7	2.9	.0	.0	18.1	
	22+	1.8	.3	.1	.5	.5	1.5	2.5	1.5	.0	.0	8.8	
	TOT %	7.7	2.6	2.0	2.3	4.1	5.2	6.9	5.6	.0	.1	36.7	
10+	0-3	.3	.1	.1	.3	.1	.1	.2	.2	.0	.6	1.9	
	4-10	2.7	2.0	2.3	2.3	2.5	3.5	3.0	2.8	.0	.0	21.0	
	11-21	5.2	2.2	2.0	1.6	2.7	4.4	4.6	5.0	.0	.0	27.7	
	22+	1.9	.5	.3	1.4	1.1	1.5	2.6	2.7	.0	.0	11.1	
	TOT %	10.1	4.8	4.8	4.5	6.4	9.4	10.4	10.7	.0	.6	61.7	
TOT OBS													
TOT PCT													
		18.6	7.5	6.9	7.0	10.5	14.7	17.4	16.7	.0	.7	100.0	1634



JUNE

PERIOD: (PRIMARY) 1912-1969  
(OVER-ALL) 1859-1969AREA 0014 AUSTRALIAN BIGHT SE  
36.1S 132.1E

TABLE 10

PERCENT FREQUENCY OF CEILING HEIGHTS (FEET, NH >4/8) AND  
OCCURRENCE OF NH <5/8 BY HOUR

HOURL (GMT)	000 149	150 299	300 599	600 999	1000 1999	2000 3499	3500 4999	5000 6499	6500 7999	8000+	TOTAL	NH <5/8 ANY HGT	TOTAL OBS
00003	.4	.0	.7	7.8	21.9	8.1	3.7	.7	.0	.4	43.7	56.3	270
06009	.0	.0	.7	5.6	18.1	9.8	4.5	1.4	.0	.0	40.1	59.9	287
12015	.4	.0	1.3	10.7	12.4	7.1	4.0	1.3	.4	.0	37.8	62.2	225
18021	.0	.5	.9	9.3	13.6	8.4	4.2	1.4	.9	.9	40.2	59.8	214
TOT	2	1	9	81	168	84	41	12	3	3	404	592	996
PCT	.2	.1	.9	8.1	16.9	8.4	4.1	1.2	.3	.3	40.6	59.4	100.0

TABLE 11

PERCENT FREQUENCY VSBY (NM) BY HOUR

HOURL (GMT)	<1/2	1/2<1	1<2	2<5	5<10	10+	TOTAL OBS
00003	.2	.6	.4	.8	40.4	57.5	485
06009	.0	.0	.2	1.5	30.3	68.0	409
12015	.0	.7	.2	.5	40.0	58.6	432
18021	.0	.6	.0	1.2	33.8	64.4	334
TOT	1	8	4	16	606	1025	1660
PCT	.1	.5	.2	1.0	36.5	61.7	100.0

TABLE 12

CUMULATIVE PCT FREQ OF RANGES OF VSBY (NM) AND/OR  
CEILING HGT (FEET, NH >4/8), BY HOUR

HOURL (GMT)	<150 <500	<600 <1	<1000 <5	1000+ AND 5+	NH <5/8 AND 5+	TOTAL OBS
00003	.4	1.5	10.4	34.7	54.8	259
06009	.0	.7	6.9	34.7	58.5	277
12015	.5	1.9	14.0	26.2	59.8	214
18021	.0	1.5	11.7	30.2	58.0	205
TOT	2	13	100	304	551	955
PCT	.2	1.4	10.5	31.8	57.7	100.0

TABLE 13

PERCENT FREQUENCY OF RELATIVE HUMIDITY BY TEMP

TEMP F	0-29	30-39	40-49	50-59	60-69	70-79	80-89	90-100	TOTAL OBS	PCT FREQ
65/69	.0	.0	.0	.0	.1	.5	.1	.1	9	.8
60/64	.0	.1	.3	.7	2.1	8.7	10.6	4.0	304	26.4
55/59	.0	.0	.3	1.4	9.3	16.3	17.7	9.5	628	54.5
50/54	.0	.0	.0	1.0	5.0	4.3	6.5	1.5	211	18.3
45/49	.0	.0	.0	.0	.0	.1	.0	.0	1	.1
TOTAL	0	1	7	35	190	345	402	173	1153	100.0
PCT	.0	.1	.6	3.0	16.5	29.9	34.9	15.0		

TABLE 14

PERCENT FREQUENCY OF WIND DIRECTION BY TEMP

N	NE	E	SE	S	SW	W	NW	VAR	CALM
.2	.1	.2	*	.0	*	.2	.1	.0	.0
8.7	3.2	1.2	3	1.1	1.2	4.6	6.7	.0	.3
8.0	4.6	3.2	3.1	5.2	9.5	11.0	9.8	.0	.1
1.0	.6	1.4	2.8	4.8	4.2	2.9	.6	.0	.0
.0	.0	.1	*	.0	.0	.0	.0	.0	.0
17.8	8.6	6.1	6.2	10.1	15.0	18.6	17.3	.0	.3

TABLE 15

MEANS, EXTREMES AND PERCENTILES OF TEMP (DEG F) BY HOUR

HOURL (GMT)	MAX	99%	95%	50%	5%	1%	MIN	MEAN	TOTAL OBS
00003	67	65	63	58	52	51	46	57.6	665
06009	66	65	63	58	53	50	49	58.1	462
12015	64	62	61	57	52	50	49	56.6	340
18021	66	63	62	57	51	50	48	56.7	385
TOT	67	64	63	57	52	50	46	57.3	2052

TABLE 16

PERCENT FREQUENCY OF RELATIVE HUMIDITY BY HOUR

HOURL (GMT)	0-29	30-39	40-49	50-59	60-69	70-79	80-89	90-100	MEAN	TOTAL OBS
00003	.0	2.7	14.0	34.3	38.0	10.9	79	329		
06009	.0	5.9	18.4	31.9	30.9	12.8	77	320		
12015	.0	2.8	18.4	25.8	32.5	20.5	79	283		
18021	.0	3.3	15.9	26.1	38.0	16.7	80	245		
TOT	0	44	196	352	409	176	79	1177		

JUNE

PERIOD: (PRIMARY) 1912-1969  
(OVER-ALL) 1859-1969

TABLE 17

AREA 0014 AUSTRALIAN BIGHT SE  
36.15 132.1EPCT FRFQ OF AIR TEMPERATURE (DEG F) AND THE OCCURRENCE OF FOG (WITHOUT PRECIPITATION)  
VS AIR-SEA TEMPERATURE DIFFERENCE (DEG F)

AIR-SEA TMP DIF	45 48	49 52	53 56	57 60	61 64	65 68	TOT	N FOG	WD FOG
11/13	.0	.0	.0	.1	.0	.0	1	.0	.1
9/10	.0	.0	.0	.1	.0	.0	1	.0	.1
7/8	.0	.0	.0	.0	.1	.1	2	.0	.2
6	.0	.0	.0	.0	.3	.0	4	.0	.3
5	.0	.0	.0	.3	.4	.0	9	.1	.6
4	.0	.0	.1	.2	.7	.1	13	.0	1.0
3	.0	.0	.2	1.1	2.5	.2	53	.0	4.0
2	.0	.1	.4	3.0	2.9	.2	88	.2	6.4
1	.0	.0	.9	6.8	3.7	.2	155	.0	11.6
0	.0	.1	1.3	10.3	2.2	.0	184	.2	13.6
-1	.0	.0	2.9	9.2	1.6	.0	182	.3	13.4
-2	.0	.2	6.2	5.2	.5	.0	162	.2	12.0
-3	.0	.4	6.2	4.1	.5	.0	149	.2	11.0
-4	.0	.5	6.4	2.3	.1	.0	123	.0	9.2
-5	.0	.7	3.5	2.1	.2	.0	86	.1	6.4
-6	.0	1.1	2.4	.6	.0	.0	55	.0	4.1
-7/-8	.0	1.6	2.0	.2	.0	.0	51	.0	3.8
-9/-10	.1	.1	.3	.1	.0	.0	7	.0	.5
-11/-13	.0	.2	.2	.0	.0	.0	4	.0	.3
-14/-16	.0	.1	.1	.0	.0	.0	2	.0	.2
TOTAL	1		441		206		1331	16	1315
PCT	.1	.65	33.1	607	15.5	.8	100.0	1.2	98.8

PERIOD: (OVER-ALL) 1963-1969

TABLE 18

PCT FRFQ OF WIND SPEED (KTS) AND DIRECTION VERSUS SEA HEIGHTS (FT)

HGT	1-3	4-10	11-21	22-33	34-47	48+	PCT	1-3	4-10	11-21	22-33	34-47	48+	PCT
<1	.1	.4	.0	.0	.0	.0	.5	.0	.2	.0	.0	.0	.0	.2
1-2	.4	1.8	.5	.0	.0	.0	2.7	.2	2.9	.6	.0	.0	.0	3.7
3-4	.0	1.2	3.6	.1	.0	.0	5.0	.0	.7	1.7	.0	.0	.0	2.4
5-6	.0	.4	2.7	.7	.1	.0	3.9	.0	.7	2.3	.0	.0	.0	3.1
7	.0	.1	1.2	.9	.0	.0	2.2	.0	*	.3	.2	.0	.0	.6
8-9	.0	.0	.6	.3	.0	.0	.8	.0	.0	.0	*	.0	.0	*
10-11	.0	.0	.0	.3	.1	.0	.5	.0	.0	.0	.0	.0	.0	.0
12	.0	.0	.0	.5	.2	.0	.6	.0	.0	.2	.0	.0	.0	.2
13-16	.0	.0	.0	.0	.1	.0	.1	.0	.0	.0	.0	.0	.0	.0
17-19	.0	.0	.0	.2	.0	.0	.2	.0	.0	.0	.0	.0	.0	.0
20-22	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.2	.0	.2
23-25	.0	.0	.0	.0	.2	.0	.2	.0	.0	.0	.0	.0	.0	.0
26-32	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
33-40	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
41-48	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
49-60	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
61-70	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
71-86	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
87+	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
TOT PCT	.5	3.9	5.6	3.0	.8	.0	16.8	.2	4.5	5.1	.3	.2	.0	10.4

HGT	1-3	4-10	11-21	22-33	34-47	48+	PCT	1-3	4-10	11-21	22-33	34-47	48+	PCT
<1	.0	.6	.1	.0	.0	.0	.7	.0	.7	*	.0	.0	.0	.8
1-2	.0	1.2	.7	.0	.0	.0	1.9	.0	.6	*	.0	.0	.0	.6
3-4	.0	.5	1.5	.0	.0	.0	1.9	.0	.6	.6	.0	.0	.0	1.1
5-6	.0	.2	.5	.7	.0	.0	1.4	.0	.2	.2	.6	.0	.0	1.0
7	.0	.0	.4	.0	.0	.0	.4	.0	.0	.0	.2	.0	.0	.2
8-9	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
10-11	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.2	.0	.0	.2
12	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
13-16	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
17-19	.0	.0	.0	.0	.2	.0	.2	.0	.0	.0	.0	.0	.0	.0
20-22	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
23-25	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
26-32	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
33-40	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
41-48	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
49-60	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
61-70	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
71-86	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
87+	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
TOT PCT	.0	2.4	3.2	.7	.2	.0	6.4	.0	2.1	.9	.9	.0	.0	3.9

PERIOD: (OVER-ALL) 1963-1969

JUNE

AREA 0014 AUSTRALIAN BIGHT SE  
36.15 132.1E

TABLE 18 (CONT)

PCT FREQ OF WIND SPEED (KTS) AND DIRECTION VERSUS SEA HEIGHTS (FT)

HGT	1-3	4-10	11-21	22-33	34-47	48+	PCT	1-3	4-10	11-21	22-33	34-47	48+	PCT	TOTAL PCT
<1	.0	.0	.0	.0	.0	.0	.0	.0	.6	.0	.0	.0	.0	.0	.6
1-2	.0	.5	.0	.0	.0	.0	.5	.0	.9	.6	.0	.0	.0	.0	1.4
3-4	.0	.6	1.1	.0	.0	.0	1.6	.0	1.5	1.6	.0	.0	.0	.0	3.0
5-6	.0	.2	.8	.0	.0	.0	1.0	.0	.2	2.9	.2	.0	.0	.0	3.3
7	.0	.0	.7	.2	.0	.0	.9	.0	.2	.8	.4	.0	.0	.0	1.3
8-9	.0	.0	.1	.0	.0	.0	.1	.0	.0	.2	.0	.0	.0	.0	.3
10-11	.0	.0	.0	.0	.0	.0	.0	.0	.2	.4	.3	.4	.0	.0	1.2
12	.0	.0	.0	.0	.0	.0	.0	.0	.2	.2	.0	.0	.0	.0	.4
13-16	.0	.0	.0	.0	.0	.0	.0	.0	.0	.4	.6	.4	.0	.0	1.3
17-19	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
20-22	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.1	.0	.0	.1
23-25	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
26-32	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
33-40	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
41-48	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
49-60	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
61-70	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
71-86	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
87+	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
TOT PCT	.0	1.2	2.8	.2	.0	.0	4.2	.0	3.4	7.0	1.7	.9	.0	12.9	

HGT	1-3	4-10	11-21	22-33	34-47	48+	PCT	1-3	4-10	11-21	22-33	34-47	48+	PCT	TOTAL PCT
<1	.0	.2	.0	.0	.0	.0	.2	.2	.2	.0	.0	.0	.0	.0	.4
1-2	.0	2.9	.6	.0	.0	.0	3.4	.2	2.4	.2	.0	.0	.0	.0	2.8
3-4	.0	1.3	2.9	.5	.0	.0	4.7	.0	1.7	3.9	.6	.0	.0	.0	6.2
5-6	.0	.0	3.1	1.1	.0	.0	4.1	.0	.4	3.3	2.1	.0	.0	.0	5.8
7	.0	.0	1.1	.8	.0	.0	2.0	.0	.0	2.3	2.3	.0	.0	.0	4.6
8-9	.0	.0	.5	1.0	1.2	.0	2.8	.0	.0	.0	.1	.4	.0	.0	.6
10-11	.0	.0	.5	1.1	.2	.0	1.8	.0	.0	.2	.6	.6	.0	.0	1.5
12	.0	.0	.0	.6	.4	.0	1.0	.0	.0	.0	.3	.0	.0	.0	.3
13-16	.0	.0	.0	1.0	.6	.0	1.6	.0	.0	.0	.6	.0	.0	.0	.7
17-19	.0	.0	.0	.1	.0	.0	.1	.0	.0	.0	.2	.0	.0	.0	.2
20-22	.0	.0	.0	.0	.5	.0	.5	.0	.0	.0	.0	.0	.0	.0	.0
23-25	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
26-32	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
33-40	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
41-48	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
49-60	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
61-70	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
71-86	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
87+	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
TOT PCT	.0	4.4	8.7	6.3	2.8	.0	22.2	.4	4.6	10.0	6.9	1.1	.0	23.1	99.8

WIND SPEED (KTS) VS SEA HEIGHT (FT)

HGT	0-3	4-10	11-21	22-33	34-47	48+	PCT	TOT OBS
<1	1.8	2.9	.2	.0	.0	.0	4.9	
1-2	.7	13.2	3.1	.0	.0	.0	17.0	
3-4	.0	7.8	16.6	1.3	.0	.0	25.6	
5-6	.0	2.2	15.7	5.2	.2	.0	23.3	
7	.0	.4	6.7	4.9	.0	.0	11.9	
8-9	.0	.0	1.4	1.6	.0	.0	4.5	
10-11	.0	.2	1.1	2.5	1.3	.0	5.1	
12	.0	.0	.4	1.6	.5	.0	2.5	
13-16	.0	.0	.4	2.2	1.1	.0	3.6	
17-19	.0	.0	.0	.5	.2	.0	.7	
20-22	.0	.0	.0	.0	.7	.0	.7	
23-25	.0	.0	.0	.0	.2	.0	.2	
26-32	.0	.0	.0	.0	.0	.0	.0	
33-40	.0	.0	.0	.0	.0	.0	.0	
41-48	.0	.0	.0	.0	.0	.0	.0	
49-60	.0	.0	.0	.0	.0	.0	.0	
61-70	.0	.0	.0	.0	.0	.0	.0	
71-86	.0	.0	.0	.0	.0	.0	.0	
87+	.0	.0	.0	.0	.0	.0	.0	
TOT PCT	2.5	26.5	45.5	19.7	5.8	.0	100.0	554

PERIOD: (OVER-ALL) 1949-1969

TABLE 19

PERCENT FREQUENCY OF WAVE HEIGHT (FT) VS WAVE PERIOD (SECONDS)

PERIOD (SEC)	<1	1-2	3-4	5-6	7	8-9	10-11	12	13-16	17-19	20-22	23-25	26-32	33-40	41-48	49-60	61-70	71-86	87+	TOTAL	MEAN HGT
<6	.5	3.8	4.7	2.9	2.8	1.0	.4	.3	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	129	4
6-7	.0	.1	2.7	6.6	4.8	2.7	2.8	.8	.9	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	168	7
8-9	.0	.0	1.4	2.5	3.9	3.6	3.3	1.3	3.3	2.3	.8	.3	.0	.0	.0	.0	.0	.0	.0	178	10
10-11	.0	.0	.5	1.1	3.4	1.5	3.6	2.2	1.4	1.0	1.1	.8	.1	.0	.0	.0	.0	.0	.0	132	11
12-13	.0	.0	.1	.6	1.0	.9	1.9	1.7	1.7	.4	.5	.4	.0	.0	.0	.0	.0	.0	.0	72	11
13	.0	.0	.0	.1	.4	.1	.4	.1	.5	.0	.1	.3	.0	.0	.0	.0	.0	.0	.0	15	13
INDET	.5	1.4	.5	1.4	2.3	2.2	1.5	.5	1.0	.1	.1	.0	.0	.0	.0	.0	.0	.0	.0	95	7
TOTAL	8	42	78	121	147	94	109	53	69	30	20	13	1	0	0	0	0	0	0	785	8
PCT	1.0	5.4	9.9	15.4	18.7	12.0	13.9	6.8	8.8	3.8	2.5	1.7	.1	.0	.0	.0	.0	.0	.0	100.0	

JULY

PERIOD: (PRIMARY) 1912-1970  
(OVER-ALL) 1878-1970AREA 0014 AUSTRALIAN BIGHT SE  
36.15 132.2E

TABLE 1

PERCENT FREQUENCY OF WEATHER OCCURRENCE BY WIND DIRECTION

WIND DIR	PRECIPITATION TYPE							OTHER WEATHER PHENOMENA							NO SIG WEA
	RAIN	RAIN SHWR	DRZL	FRZG PCPN	SNOW	OTHER FRZN PCPN	HAIL	PCPN AT DB TIME	PCPN PAST HOUR	THDR LTNG	FGG WD PCPN	FGG WD PCPN PAST HR	SMOKE HAZE	SPRAY BLWG DUST	
N	5.2	1.9	2.4	.0	.0	.0	.0	9.4	.9	.4	.7	.0	.7	.0	88.2
NE	1.3	4.4	1.3	.0	.0	.0	.0	6.9	3.8	1.3	2.5	.0	.0	.0	85.5
E	.0	14.3	1.0	.0	.0	.0	.0	15.3	.0	.0	4.1	.0	.0	.0	80.6
SE	.0	5.8	3.8	.0	.0	.0	.0	9.6	.0	.0	6.7	.0	.0	.0	83.7
S	6.0	8.0	2.5	.0	.0	.0	.0	16.5	3.0	.0	.9	.0	.0	.0	79.6
SW	3.4	11.9	1.2	.0	.0	.0	.4	16.8	7.4	.6	.0	.0	.0	.0	75.4
W	3.9	9.3	1.5	.0	.0	.0	.3	15.1	8.0	1.4	1.1	.0	.0	.0	74.8
NW	5.0	1.6	2.5	.0	.0	.0	.0	8.7	4.0	2.7	1.5	.0	.6	.0	83.1
VAR	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
CALM	16.7	.0	.0	.0	.0	.0	.0	16.7	33.3	.0	.0	.0	.0	.0	50.0
TOT PCT	4.1	6.7	1.9	.0	.0	.0	.1	12.8	4.7	1.1	1.3	.0	.2	.0	80.1
TOT OBS:	1395														

TABLE 2

PERCENT FREQUENCY OF WEATHER OCCURRENCE BY HOUR

HOUR (GMT)	PRECIPITATION TYPE							OTHER WEATHER PHENOMENA							NO SIG WEA
	RAIN	RAIN SHWR	DRZL	FRZG PCPN	SNOW	OTHER FRZN PCPN	HAIL	PCPN AT DB TIME	PCPN PAST HOUR	THDR LTNG	FGG WD PCPN	FGG WD PCPN PAST HR	SMOKE HAZE	SPRAY BLWG DUST	
00103	3.8	6.9	.7	.0	.0	.0	.5	11.9	5.2	.2	1.7	.0	.2	.0	81.0
06109	4.5	5.3	2.4	.0	.0	.0	.0	12.2	6.2	.0	.3	.0	.6	.0	80.7
12115	3.6	9.0	2.5	.0	.0	.0	.0	15.1	2.7	2.5	1.9	.0	.0	.0	78.1
18121	4.8	5.2	2.4	.0	.0	.0	.0	12.0	5.5	1.7	1.4	.0	.0	.0	80.1
TOT PCT	4.1	6.7	1.9	.0	.0	.0	.1	12.8	4.9	1.1	1.3	.0	.2	.0	80.0
TOT OBS:	1414														

TABLE 3

PERCENTAGE FREQUENCY OF WIND DIRECTION BY SPEED AND BY HOUR

WIND DIR	WIND SPEED (KNOTS)							TOTAL OBS	PCT FREQ	MEAN SPD	HOUR (GMT)						
	0-3	4-10	11-21	22-33	34-47	48+					00	03	06	09	12	15	18
N	.1	4.6	6.3	3.9	.7	.0		15.7	16.6		18.0	18.0	15.3	.0	12.5	16.0	15.5
NE	.1	2.9	2.3	1.0	.1	.0		6.4	13.5		6.3	8.7	5.7	.0	6.7	7.3	5.7
E	.5	1.6	1.0	.1	.2	.0		3.4	11.3		2.8	3.4	3.7	.0	3.0	6.1	3.0
SE	.2	1.8	1.5	.3	.0	.0		3.8	11.2		3.8	4.9	4.4	.0	3.8	3.8	2.5
S	.5	3.3	4.4	2.8	.3	.0		11.5	15.6		10.4	11.7	11.8	.0	12.7	8.8	12.4
SW	.4	3.4	6.6	4.3	2.4	.1		17.1	19.8		18.4	16.4	16.0	66.7	17.7	13.0	17.4
W	.3	4.4	8.0	6.5	2.9	.3		22.5	20.6		23.6	17.1	23.8	.0	23.3	21.4	22.2
NW	.2	3.8	9.4	4.2	.9	.1		18.6	17.4		16.2	16.5	18.8	33.3	19.5	22.1	20.3
VAR	.0	.0	.0	.0	.0	.0		.0	.0		.0	.0	.0	.0	.0	.0	.0
CALM	.9							1.0	3.2		.5	3.4	.5	.0	.8	1.5	.8
TOT OBS	59	486	749	437	145	8	1884		17.4		406	206	402	3	375	131	358
TOT PCT	3.1	25.8	39.8	23.2	7.7	.4		100.0			100.0	100.0	100.0	100.0	100.0	100.0	100.0

TABLE 3A

WIND DIR	WIND SPEED (KNOTS)					TOTAL OBS	PCT FREQ	MEAN SPD	HOUR (GMT)				
	0-6	7-16	17-27	28-40	41+				00	06	12	18	
N	1.8	6.4	5.3	2.0	.1		15.7	16.6	18.0	15.2	13.4	15.4	
NE	1.0	3.6	1.3	.5	.0		7.1	5.6	7.1	5.6	6.8	5.6	
E	1.3	1.3	.6	.2	.0		3.4	11.3	3.0	3.7	3.8	3.0	
SE	1.3	1.6	.7	.1	.0		3.8	11.2	4.1	4.4	3.8	2.5	
S	2.0	4.5	3.6	1.4	.0		11.5	15.6	10.8	11.7	11.7	12.3	
SW	1.4	5.6	5.8	3.9	.4		17.1	19.8	17.7	16.4	16.5	17.8	
W	1.8	6.7	8.8	4.0	1.2		22.5	20.6	21.4	23.6	22.8	22.5	
NW	1.6	7.7	6.8	2.3	.3		18.6	17.4	16.3	19.0	20.2	20.1	
VAR	.0	.0	.0	.0	.0		.0	.0	.0	.0	.0	.0	
CALM	.9						1.0	3.2	1.5	.5	1.0	.8	
TOT OBS	246	705	620	275	38	1884		17.4	612	405	506	361	
TOT PCT	13.1	37.4	32.9	14.6	2.0		100.0		100.0	100.0	100.0	100.0	

PERIOD: (PRIMARY) 1912-1970  
(OVER-ALL) 1878-1970

JULY

AREA 0014 AUSTRALIAN BIGHT SE  
36.15 132.2E

TABLE 4

PERCENTAGE FREQUENCY OF WIND SPEED BY HOUR (GMT)

HOUR	CALM	1-3	4-10	WIND SPEED (KNOTS)			48+	MEAN	PCT FREQ	TOTAL OBS
				11-21	22-33	34-47				
0000	1.5	1.8	24.2	42.8	22.4	7.4	.0	17.2	100.0	612
0600	.5	2.2	23.2	39.5	24.2	9.9	.5	18.3	100.0	405
1200	1.0	2.4	30.8	34.6	23.1	7.1	1.0	17.1	100.0	506
1800	.8	2.8	24.4	42.1	23.3	6.4	.3	16.9	100.0	361
TOT	19	62	486	749	436	144	8	17.4		1884
PCT	1.0	2.2	25.8	39.8	23.1	7.6	.4		100.0	

TABLE 5

PCT FREQ OF TOTAL CLOUD AMOUNT (EIGHTHS)  
BY WIND DIRECTION

WIND DIR	0-2	3-4	5-7	8 & OBSCD	TOTAL OBS	MEAN CLOUD COVER
N	3.3	2.6	4.0	4.0		5.0
NE	1.4	.8	1.3	.9		4.6
E	.7	.5	1.1	1.1		5.5
SE	.4	.7	.9	.7		4.7
S	1.4	3.9	4.1	2.4		5.1
SW	2.6	5.0	8.8	2.3		4.9
W	5.1	7.7	8.6	4.1		4.6
NW	5.5	3.1	6.6	3.9		4.6
VAR	.0	.0	.0	.0		.0
CALM	.2	.1	.1	.2		4.5
TOT OBS	169	201	297	159	826	4.8
TOT PCT	20.5	24.3	36.0	19.2	100.0	

TABLE 6

PERCENTAGE FREQUENCY OF CEILING HEIGHTS (FT) NH >4/8  
AND OCCURRENCE OF NH <5/8 BY WIND DIRECTION

WIND DIR	0-2	3-4	5-7	8 & OBSCD	TOTAL OBS	MEAN CLOUD COVER	000 149	150 299	300 599	600 999	1000 1999	2000 3499	3500 4999	5000 6499	6500 7999	8000+ ANY HGT	NH <5/8 TOTAL OBS
N	3.3	2.6	4.0	4.0		5.0	.0	.0	.2	.9	1.8	1.2	.7	.2	.2	.2	8.4
NE	1.4	.8	1.3	.9		4.6	.0	.0	.0	.2	.5	1.0	.1	.1	.0	.1	2.8
E	.7	.5	1.1	1.1		5.5	.0	.0	.4	.2	.5	.3	.5	.0	.0	.1	1.2
SE	.4	.7	.9	.7		4.7	.0	.0	.0	.2	.5	.*	.0	.0	.0	.*	1.4
S	1.4	3.9	4.1	2.4		5.1	.0	.0	.2	1.3	2.6	.6	.7	.0	.0	.1	6.2
SW	2.6	5.0	8.8	2.3		4.9	.2	.0	.6	2.3	3.6	1.9	.7	.4	.0	.*	9.0
W	5.1	7.7	8.6	4.1		4.6	.1	.0	.0	2.8	3.9	1.9	1.3	.5	.2	.0	14.7
NW	5.5	3.1	6.6	3.9		4.6	.2	.0	.1	1.7	2.2	.9	1.0	.3	.0	.1	12.5
VAR	.0	.0	.0	.0		.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
CALM	.2	.1	.1	.2		4.5	.0	.0	.0	.1	.1	.1	.0	.0	.0	.0	.4
TOT OBS	169	201	297	159	826	4.8	4	0	13	80	130	66	42	12	4	6	469
TOT PCT	20.5	24.3	36.0	19.2	100.0		.5	.0	1.6	9.7	15.7	8.0	5.1	1.5	.5	.7	56.8

TABLE 7

CUMULATIVE PCT FREQ OF SIMULTANEOUS OCCURRENCE  
OF CEILING HEIGHT (NH >4/8) AND VSBY (NM)

CEILING (FEET)	VSBY (NM)							
	>10	>5	>2	>1	>1/2	>1/4	>50YD	>0
>OR >6500	.8	1.2	1.2	1.2	1.2	1.2	1.2	1.2
>OR >6000	1.8	2.6	2.6	2.6	2.6	2.6	2.6	2.6
>OR >5500	5.6	7.7	7.7	7.7	7.7	7.7	7.7	7.7
>OR >5000	12.4	15.5	15.6	15.6	15.6	15.6	15.6	15.6
>OR >4500	24.2	30.7	31.2	31.3	31.3	31.3	31.3	31.3
>OR >4000	30.1	40.1	40.9	41.1	41.1	41.1	41.1	41.1
>OR >3500	31.1	41.5	42.5	42.6	42.6	42.6	42.6	42.6
>OR >3000	31.1	41.5	42.5	42.6	42.6	42.6	42.6	42.6
>OR >2500	31.1	41.5	42.5	42.6	42.6	42.6	42.6	42.6
>OR >2000	31.2	41.7	42.7	43.1	43.1	43.1	43.1	43.1
TOTAL	260	347	356	359	359	359	359	359

TOTAL NUMBER OF OBS: 833

PCT FREQ NH <5/8: 56.9

TABLE 7A

PERCENTAGE FREQ OF LOW CLOUDS (EIGHTHS)

0	1	2	3	4	5	6	7	8	OBSCD	TOTAL OBS
7.6	10.0	10.9	13.3	14.4	10.6	10.3	9.4	13.4	.1	947



JULY

PERIOD: (PRIMARY) 1912-1970  
(OVER-ALL) 1878-1970AREA 0014 AUSTRALIAN BIGHT SE  
96.15 132.2E

TABLE 8

PERCENT FREQ OF WIND DIRECTION VS OCCURRENCE OR NON-OCCURRENCE OF  
PRECIPITATION WITH VARYING VALUES OF VISIBILITY

VSBY (NM)		N	NE	E	SE	S	SW	W	NW	VAR	CALM	PCT	TOTAL OBS
<1/2	PCP	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
	NO PCP	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
	TOT %	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
1/2<1	PCP	.1	.0	.0	.0	*	*	.0	.0	.0	.0	.1	
	NO PCP	*	.1	.1	.0	.0	.0	.1	.2	.0	.0	.6	
	TOT %	.1	.1	.1	.0	*	*	.1	.2	.0	.0	.7	
1<2	PCP	.0	.0	.0	.0	.0	.0	.1	.1	.0	.0	.2	
	NO PCP	.1	.0	.0	.0	.0	.0	.0	.2	.0	.0	.3	
	TOT %	.1	.0	.0	.0	.0	.0	.1	.3	.0	.0	.5	
2<5	PCP	.1	.0	.1	.0	.2	.1	.2	.2	.0	.0	.9	
	NO PCP	.1	.0	.0	.0	.0	.1	.1	.1	.0	.1	.5	
	TOT %	.2	.0	.1	.0	.2	.2	.4	.3	.0	.1	1.4	
5<10	PCP	.9	.3	.4	.3	1.3	1.8	2.2	1.2	.0	.1	8.4	
	NO PCP	4.9	2.2	1.2	1.8	3.2	3.0	6.2	5.8	.0	.0	28.4	
	TOT %	5.9	2.5	1.6	2.1	4.4	4.9	8.4	7.0	.0	.1	36.8	
10+	PCP	.4	.1	.1	.1	.5	.9	1.0	.1	.0	.0	3.2	
	NO PCP	8.6	2.9	1.6	1.5	6.9	11.0	13.5	11.1	.0	.3	57.4	
	TOT %	9.0	3.1	1.7	1.6	7.3	11.9	14.5	11.2	.0	.3	60.6	
TOT OBS													
TOT PCT													
1395													
15.2 5.7 3.5 3.7 12.0 17.0 23.4 18.9 .0 .4 100.0													

TABLE 9

PERCENT FREQ OF WIND DIRECTION VS WIND SPEED  
WITH VARYING VALUES OF VISIBILITY

VSBY (NM)	SPD KTS	N	NE	E	SE	S	SW	W	NW	VAR	CALM	PCT	TOTAL OBS
<1/2	0-3	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
	4-10	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
	11-21	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
	22+	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
	TOT %	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
1/2<1	0-3	.0	*	.1	.0	.0	.0	.0	.0	.0	.0	.1	
	4-10	.1	*	*	.0	.0	.0	.0	.0	.0	.0	.1	
	11-21	*	.1	.0	.0	*	*	.1	.1	.0	.0	.3	
	22+	.0	.0	.0	.0	.0	.0	.0	.1	.0	.0	.1	
	TOT %	.1	.1	.1	.0	*	*	.1	.2	.0	.0	.7	
1<2	0-3	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
	4-10	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
	11-21	.0	.0	.0	.0	.0	.0	.0	.1	.0	.0	.1	
	22+	.1	.0	.0	.0	.0	.0	.1	.2	.0	.0	.4	
	TOT %	.1	.0	.0	.0	.0	.0	.1	.3	.0	.0	.5	
2<5	0-3	.0	.0	.0	.0	.0	.0	.0	.0	.0	.1	.1	
	4-10	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
	11-21	.1	.0	.0	.0	.1	*	.1	.2	.0	.0	.5	
	22+	.1	.0	.1	.0	.1	.2	.3	.1	.0	.0	.8	
	TOT %	.2	.0	.1	.0	.2	.2	.4	.2	.0	.1	1.3	
5<10	0-3	.0	.0	.2	.0	.1	*	.1	*	.0	.1	.6	
	4-10	1.4	1.3	1.0	1.2	1.5	1.0	1.0	1.0	.0	.0	9.3	
	11-21	2.3	.7	.2	.7	1.7	1.6	2.5	3.2	.0	.0	12.9	
	22+	1.9	.5	.1	.1	.8	2.1	4.3	2.4	.0	.0	12.1	
	TOT %	5.6	2.4	1.5	1.9	4.1	4.7	7.9	6.6	.0	.1	34.9	
10+	0-3	.1	.1	.2	*	.3	.1	.1	.1	.0	.3	1.4	
	4-10	2.5	1.4	.9	.8	1.8	2.0	3.7	2.9	.0	.0	16.1	
	11-21	3.5	1.3	.6	.5	3.0	5.3	5.8	6.3	.0	.0	26.3	
	22+	2.8	.6	.1	.3	2.3	4.5	5.5	2.7	.0	.0	18.9	
	TOT %	8.9	3.5	1.9	1.7	7.4	11.8	15.1	11.9	.0	.4	62.7	
TOT OBS													
TOT PCT													
1509													
14.9 6.0 3.6 3.6 11.8 16.8 23.5 19.3 .0 .5 100.0													

JULY

PERIOD: (PRIMARY) 1912-1970  
(OVER-ALL) 1878-1970AREA 0014 AUSTRALIAN BIGHT SF  
36.15 132.2E

TABLE 10

PERCENT FREQUENCY OF CEILING HEIGHTS (FEET, NH > 4/8) AND  
OCCURRENCE OF NH < 5/8 BY HOUR

HOURL (GMT)	000 149	150 299	300 599	600 999	1000 1999	2000 3499	3500 4999	5000 6499	6500 7999	8000+	TOTAL	NH < 5/8 ANY HGT	TOTAL OBS
00003	.0	.0	2.4	9.1	17.4	7.5	4.3	.4	.8	1.2	43.1	56.9	253
06009	.4	.0	1.6	10.5	14.9	11.7	5.6	2.4	.0	.0	47.2	52.8	248
12015	1.0	.0	.5	7.6	11.7	5.1	4.6	1.5	1.0	1.0	34.0	66.0	197
18021	.5	.0	1.0	8.8	13.9	4.6	4.1	1.0	.0	.5	34.5	65.5	194
TOT	4	0	13	81	131	67	42	12	4	6	360	532	892
PCT	.4	.0	1.5	9.1	14.7	7.5	4.7	1.3	.4	.7	40.4	59.6	100.0

TABLE 11

PERCENT FREQUENCY VS BY (NM) BY HOUR

HOURL (GMT)	<1/2	1/2<1	1<2	2<5	5<10	10+	TOTAL OBS
00003	.0	.7	.4	.9	37.3	60.7	458
06009	.0	.0	.8	1.7	31.7	65.7	356
12015	.0	1.2	.5	.7	39.2	58.3	403
18021	.0	.6	.0	2.3	30.5	66.6	311
TOT	0	10	7	20	537	954	1528
PCT	.0	.7	.5	1.3	35.1	62.4	100.0

TABLE 12

CUMULATIVE PCT FREQ OF RANGES OF VS BY (NM) AND/OR  
CEILING HGT (FEET, NH > 4/8), BY HOUR

HOURL (GMT)	<150 <50YD	<600 <1	<1000 <5	1000+ AND 5+	NH < 5/8 AND 5+	TOTAL OBS
00003	.0	2.6	13.0	34.3	52.6	230
06009	.4	2.1	14.3	35.0	50.6	237
12015	1.1	1.6	11.0	26.4	62.6	182
18021	.5	1.6	12.0	25.0	63.0	184
TOT	4	17	106	256	471	833
PCT	.5	2.0	12.7	30.7	56.5	100.0

TABLE 13

PERCENT FREQUENCY OF RELATIVE HUMIDITY BY TEMP

TEMP F	0-29	30-39	40-49	50-59	60-69	70-79	80-89	90-100	TOTAL OBS	PCT FREQ
65/69	.0	.0	.0	.0	.0	.1	.0	.0	1	.1
60/64	.0	.0	.1	.0	1.4	4.9	3.1	.7	102	10.1
55/59	.0	.0	.0	1.5	7.9	17.9	20.7	6.3	548	54.4
50/54	.0	.0	.0	1.5	8.2	9.2	10.9	3.5	336	33.3
45/49	.0	.0	.0	.0	.2	.6	.8	.5	21	2.1
TOTAL	0	0	1	30	179	328	359	111	1008	100.0
PCT	.0	.0	.1	3.0	17.8	32.5	35.6	11.0		

TABLE 14

PERCENT FREQUENCY OF WIND DIRECTION BY TEMP

	N	NE	E	SE	S	SW	W	NW	VAR	CALM
65/69	.0	.0	.0	.0	.0	.0	.1	.0	.0	.0
60/64	3.0	1.0	.1	.0	.0	.2	2.5	3.1	.0	.2
55/59	11.6	3.1	1.8	.6	1.9	6.0	14.9	14.2	.0	.2
50/54	1.7	.8	1.1	2.4	7.2	10.5	7.2	2.3	.0	.2
45/49	.0	.0	.0	.0	1.9	1.0	.1	.0	.0	.0
TOTAL	16.2	4.9	3.0	3.0	10.0	17.8	24.8	19.7	.0	.6

TABLE 15

MEANS, EXTREMES AND PERCENTILES OF TEMP (DEG F) BY HOUR

HOURL (GMT)	MAX	99%	95%	50%	5%	1%	MIN	MEAN	TOTAL OBS
00003	64	63	61	56	50	49	48	55.8	596
06009	68	63	61	57	51	49	48	56.4	398
12015	64	62	59	55	50	48	46	55.0	501
18021	62	61	59	55	50	49	48	54.8	360
TOT	68	62	60	56	51	49	46	55.5	1855

TABLE 16

PERCENT FREQUENCY OF RELATIVE HUMIDITY BY HOUR

HOURL (GMT)	0-29	30-59	60-69	70-79	80-89	90-100	MEAN	TOTAL OBS
00003	.0	3.2	17.3	34.5	33.5	11.6	78	284
06009	.0	3.9	22.3	33.6	31.3	9.0	77	256
12015	.0	2.0	15.4	31.5	41.7	9.4	79	254
18021	.0	3.6	15.3	30.6	36.5	14.0	79	222
TOT	0	32	179	332	362	111	78	1016

JULY

PERIOD: (PRIMARY) 1912-1970  
(OVER-ALL) 1878-1970

TABLE 17

AREA 0014 AUSTRALIAN BIGHT SE  
36.15 132.2EPCT FREQ OF AIR TEMPERATURE (DEG F) AND THE OCCURRENCE OF FOG (WITHOUT PRECIPITATION)  
VS AIR-SEA TEMPERATURE DIFFERENCE (DEG F)

AIR-SEA TMP DIF	45	49	53	57	61	65	TOT	W FOG	WD FOG
	48	52	56	60	64	68			
11/13	.0	.0	.1	.0	.0	.0	1	.0	.1
9/10	.0	.0	.0	.1	.0	.0	1	.0	.1
7/8	.0	.0	.2	.0	.0	.1	3	.0	.3
6	.0	.0	.0	.1	.0	.0	1	.0	.1
5	.0	.0	.1	.1	.4	.0	7	.0	.6
4	.0	.0	.0	.4	.4	.1	11	.1	.8
3	.0	.0	.2	1.8	1.1	.0	36	.2	2.9
2	.0	.1	.5	4.4	.9	.0	70	.1	5.9
1	.0	.1	1.4	7.1	.9	.0	113	.1	9.5
0	.0	.4	4.2	9.3	.3	.0	167	.2	14.0
-1	.0	.0	7.4	5.1	.3	.0	151	.2	12.6
-2	.0	.8	8.1	3.7	.1	.0	148	.1	12.5
-3	.1	1.4	7.9	.8	.0	.0	121	.0	10.3
-4	.1	2.4	4.8	.8	.1	.0	96	.2	8.0
-5	.0	3.5	5.2	.4	.0	.0	107	.2	8.9
-6	.1	2.5	2.2	.2	.0	.0	58	.2	4.8
-7/-8	.1	3.1	1.6	.3	.0	.0	59	.1	4.9
-9/-10	.0	1.1	.4	.1	.0	.0	19	.1	1.5
-11/-13	.1	.4	.2	.1	.0	.0	9	.0	.8
TOTAL	5		522	55			1178	18	1100
PCT	.4	15.7	44.3	34.7	4.7	.2	100.0	1.5	98.5

PERIOD: (OVER-ALL) 1963-1970

TABLE 18

PCT FREQ OF WIND SPEED (KTS) AND DIRECTION VERSUS SEA HEIGHTS (FT)

HGT	1-3	4-10	11-21	22-33	34-47	48+	PCT	1-3	4-10	11-21	22-33	34-47	48+	PCT
<1	.2	.3	.2	.0	.0	.0	.7	.0	.6	.0	.0	.0	.0	.6
1-2	.0	2.6	.8	.0	.0	.0	3.4	.0	.5	.0	.0	.0	.0	.5
3-4	.0	1.3	2.5	.0	.0	.0	3.8	.0	.4	.7	.0	.0	.0	1.1
5-6	.0	.2	2.8	1.2	.0	.0	4.2	.0	.0	.9	.4	.0	.0	1.3
7	.0	.2	.6	1.7	.0	.0	2.5	.0	.0	.2	.2	.2	.0	.6
8-9	.0	.0	.0	.4	.0	.0	.4	.0	.0	.0	.0	.0	.0	.0
10-11	.0	.0	.0	.4	.0	.0	.4	.0	.0	.0	.3	.2	.0	.5
12	.0	.0	.0	.4	.0	.0	.4	.0	.0	.0	.0	.0	.0	.0
13-16	.0	.0	.0	.4	.4	.0	.8	.0	.0	.0	.0	.0	.0	.0
17-19	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
20-22	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
23-25	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
26-32	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
33-40	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
41-48	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
49-60	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
61-70	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
71-86	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
87+	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
TOT PCT	.2	4.7	6.9	4.4	.4	.0	16.6	.0	1.6	1.8	.9	.4	.0	4.7

HGT	1-3	4-10	11-21	22-33	34-47	48+	PCT	1-3	4-10	11-21	22-33	34-47	48+	PCT
<1	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
1-2	.0	1.0	.2	.0	.0	.0	1.2	.0	.9	.0	.0	.0	.0	.9
3-4	.0	.4	.2	.0	.0	.0	.5	.0	.3	.2	.0	.0	.0	.5
5-6	.0	.0	.2	.0	.0	.0	.2	.0	.0	.0	.0	.0	.0	.0
7	.0	.0	.2	.0	.0	.0	.2	.0	.0	.1	.2	.0	.0	.3
8-9	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
10-11	.0	.0	.0	.0	.2	.0	.2	.0	.0	.0	.0	.0	.0	.0
12	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
13-16	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
17-19	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
20-22	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
23-25	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
26-32	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
33-40	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
41-48	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
49-60	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
61-70	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
71-86	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
87+	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
TOT PCT	.0	1.4	.7	.0	.2	.0	2.3	.0	1.2	.3	.2	.0	.0	1.7

PERIOD: (OVER-ALL) 1963-1970

JULY

AREA 0014 AUSTRALIAN BIGHT SE  
36.15 132.2E

TABLE 18 (CONT)

PCT FREQ OF WIND SPEED (KTS) AND DIRECTION VERSUS SEA HEIGHTS (FT)

HGT	1-3	4-10	11-21	22-33	34-47	48+	PCT	1-3	4-10	11-21	22-33	34-47	48+	PCT
<1	.2	.2	.0	.0	.0	.0	.4	.3	.1	.0	.0	.0	.0	.3
1-2	.2	1.2	.4	.0	.0	.0	1.7	.0	.8	.1	.0	.0	.0	.9
3-4	.0	1.6	1.2	.0	.0	.0	2.8	.0	1.1	2.7	.3	.0	.0	4.1
5-6	.0	.0	1.1	.6	.0	.0	1.7	.0	.0	2.8	1.2	.4	.0	4.5
7	.0	.0	1.3	.6	.0	.0	1.8	.0	.0	1.2	1.6	.0	.0	2.7
8-9	.0	.0	.0	1.4	.0	.0	1.4	.0	.0	.3	1.3	.8	.0	2.4
10-11	.0	.0	.2	.4	.4	.0	.9	.0	.1	.3	.6	.3	.0	1.2
12	.0	.0	.0	.2	.2	.0	.3	.0	.0	.2	.1	.3	.0	.6
13-16	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.5	1.1	.0	1.5
17-19	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.6	.0	.6
20-22	.0	.0	.0	.0	.2	.0	.2	.0	.0	.0	.1	.2	.0	.3
23-25	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.2	.0	.1	.3
26-32	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.2	.0	.2
33-40	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
41-48	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
49-60	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
61-70	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
71-86	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
87+	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
TOT PCT	.4	2.9	4.1	3.2	.7	.0	11.3	.3	2.0	7.6	5.8	4.0	.1	19.7

HGT	1-3	4-10	11-21	22-33	34-47	48+	PCT	1-3	4-10	11-21	22-33	34-47	48+	PCT	TOTAL PCT
<1	.2	.2	.0	.0	.0	.0	.4	.0	.5	.0	.0	.0	.0	.5	
1-2	.0	1.5	.7	.0	.0	.0	2.2	.0	2.4	.3	.0	.0	.0	2.7	
3-4	.0	2.5	2.2	.3	.0	.0	5.0	.0	.9	3.4	.3	.0	.0	4.5	
5-6	.0	.8	2.3	1.3	.0	.0	4.4	.0	.5	3.6	.8	.0	.0	4.9	
7	.0	.0	1.9	1.7	.0	.0	3.6	.0	.0	1.3	1.2	.0	.0	2.5	
8-9	.0	.2	.2	1.3	.4	.0	2.1	.0	.0	.2	.6	.2	.0	1.1	
10-11	.0	.2	.2	.6	.3	.0	1.3	.0	.0	.0	.6	.3	.0	.9	
12	.0	.0	.0	.4	.2	.0	.5	.0	.0	.0	.3	.0	.0	.3	
13-16	.0	.0	.2	1.2	.2	.0	1.6	.0	.0	.0	.9	.0	.0	.9	
17-19	.0	.0	.0	.0	.2	.0	.2	.0	.0	.0	.0	.0	.0	.0	
20-22	.0	.0	.0	.4	1.3	.0	1.7	.0	.0	.0	.0	.0	.0	.0	
23-25	.0	.0	.2	.7	.2	.0	1.3	.0	.0	.0	.0	.1	.0	.1	
26-32	.0	.0	.0	.2	.0	.0	.2	.0	.0	.0	.0	.0	.0	.0	
33-40	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
41-48	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
49-60	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
61-70	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
71-86	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
87+	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
TOT PCT	.2	5.3	8.0	7.3	3.6	.2	24.5	.0	4.3	8.8	4.7	.6	.0	18.5	99.4

WIND SPEED (KTS) VS SEA HEIGHT (FT)

HGT	0-3	4-10	11-21	22-33	34-47	48+	PCT	TOT OBS
<1	1.5	1.9	.2	.0	.0	.0	3.6	
1-2	.2	11.0	2.5	.0	.0	.0	13.7	
3-4	.0	8.4	13.1	.8	.0	.0	22.4	
5-6	.0	1.5	13.7	5.5	.4	.0	21.1	
7	.0	.2	6.8	7.2	.2	.0	14.3	
8-9	.0	.2	.6	5.1	1.5	.0	7.4	
10-11	.0	.2	.6	3.0	1.7	.0	5.5	
12	.0	.0	.2	1.3	.6	.0	2.1	
13-16	.0	.0	.2	3.0	1.7	.0	4.9	
17-19	.0	.0	.0	.0	.8	.0	.8	
20-22	.0	.0	.0	.4	1.7	.0	2.1	
23-25	.0	.0	.2	.4	.8	.2	1.7	
26-32	.0	.0	.0	.0	.4	.0	.4	
33-40	.0	.0	.0	.0	.0	.0	.0	
41-48	.0	.0	.0	.0	.0	.0	.0	
49-60	.0	.0	.0	.0	.0	.0	.0	
61-70	.0	.0	.0	.0	.0	.0	.0	
71-86	.0	.0	.0	.0	.0	.0	.0	
87+	.0	.0	.0	.0	.0	.0	.0	
TOT PCT	1.7	23.4	38.2	26.6	9.9	.2	100.0	474

PERIOD: (OVER-ALL) 1949-1970

TABLE 19

PERCENT FREQUENCY OF WAVE HEIGHT (FT) VS WAVE PERIOD (SECONDS)

PERIOD (SEC)	<1	1-2	3-4	5-6	7	8-9	10-11	12	13-16	17-19	20-22	23-25	26-32	33-40	41-48	49-60	61-70	71-86	87+	TOTAL	MEAN HGT
<6	.1	1.8	1.8	2.0	1.7	.6	.6	.4	.8	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	70
6-7	.0	.4	1.4	5.0	7.8	3.1	1.7	1.0	2.0	.3	.0	.1	.3	.0	.0	.0	.0	.0	.0	.0	163
8-9	.0	.0	.3	2.7	4.5	8.3	3.7	3.5	3.3	.3	.4	1.0	.1	.0	.0	.0	.0	.0	.0	.0	10
10-11	.0	.1	.3	.7	3.7	1.8	2.5	2.1	2.5	.8	.4	.0	.0	.0	.0	.0	.0	.0	.0	.0	107
12-13	.0	.0	.0	.4	.1	1.3	2.0	2.3	2.7	.0	.6	.6	.3	.0	.0	.0	.0	.0	.0	.0	72
>13	.0	.0	.0	.0	.0	.1	.3	.1	1.4	.3	1.0	.4	.1	.0	.0	.0	.0	.0	.0	.0	17
INDET	.6	1.1	1.1	1.1	1.3	1.6	1.1	.7	.8	.3	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	69
TOTAL	5	25	35	84	135	119	84	72	96	14	17	15	6	0	0	0	0	0	0	0	707
PCT	.7	3.5	5.0	11.9	19.1	16.8	11.9	10.2	13.6	2.0	2.4	2.1	.8	.0	.0	.0	.0	.0	.0	.0	100.0

AUGUST

PERIOD: (PRIMARY) 1912-1970  
(OVER-ALL) 1865-1970AREA 0014 AUSTRALIAN BIGHT SE  
36.05 132.1E

TABLE 1

PERCENT FREQUENCY OF WEATHER OCCURRENCE BY WIND DIRECTION

WIND DIR	PRECIPITATION TYPE							OTHER WEATHER PHENOMENA									
	RAIN	RAIN SHWR	DRZL	FRZG PCPN	SNOW	OTHER FRZN PCPN	HAIL	PCPN AT OB TIME	PCPN PAST HOUR	THOR LTNG	FOG WD PCPN	FOG WD PCPN PAST HR	SMOKE HAZE	SPRAY BLWG DUST	NO SIG WEA		
N	2.5	1.2	1.0	.0	.0	.0	.0	4.7	.7	.8	1.2	.0	.6	.0	91.9		
NE	3.0	4.0	.0	.0	.0	.0	.0	6.9	.0	1.0	3.0	.0	.5	.0	88.6		
E	.0	3.9	3.1	.0	.0	.0	.0	7.0	4.7	.0	.0	.0	.0	.0	88.4		
SE	1.9	2.4	3.8	.0	.0	.0	.0	8.2	5.8	3.8	3.8	.0	.0	.0	80.3		
S	1.4	7.4	2.5	.0	.0	.0	.0	11.3	7.8	.0	.4	.0	.0	.0	80.6		
SW	2.3	6.1	1.7	.0	.0	.0	.4	10.5	4.7	.7	.6	.0	.2	.0	83.6		
W	3.1	9.9	1.7	.0	.0	.0	.6	15.3	3.1	1.2	.2	.0	.2	.0	80.0		
NW	3.8	3.3	1.1	.0	.0	.0	.0	8.2	1.9	.9	.4	.0	.4	.0	88.1		
VAR	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0		
CALM	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	100.0		
TOT PCT	2.6	5.4	1.6	.0	.0	.0	.2	9.7	3.2	.9	.8	.0	.3	.0	85.2		
TOT OBS:	1447																

TABLE 2

PERCENT FREQUENCY OF WEATHER OCCURRENCE BY HOUR

HOUR (GMT)	PRECIPITATION TYPE							OTHER WEATHER PHENOMENA									
	RAIN	RAIN SHWR	DRZL	FRZG PCPN	SNOW	OTHER FRZN PCPN	HAIL	PCPN AT OB TIME	PCPN PAST HOUR	THOR LTNG	FOG WD PCPN	FOG WD PCPN PAST HR	SMOKE HAZE	SPRAY BLWG DUST	NO SIG WEA		
00603	1.8	3.8	1.6	.0	.0	.0	.5	7.7	2.5	.0	.7	.0	.2	.0	89.0		
06609	.8	5.3	1.7	.0	.0	.0	.0	7.8	4.5	.3	.8	.0	.6	.0	86.0		
12615	4.4	7.0	1.8	.0	.0	.0	.0	13.3	2.9	1.8	1.6	.0	.5	.0	80.2		
18621	3.0	5.6	1.3	.0	.0	.0	.3	10.3	2.6	1.7	.7	.0	.0	.0	85.1		
TOT PCT	2.5	5.4	1.6	.0	.0	.0	.2	9.7	3.1	.9	.9	.0	.3	.0	85.2		
TOT OBS:	1487																

TABLE 3

PERCENTAGE FREQUENCY OF WIND DIRECTION BY SPEED AND BY HOUR

WIND DIR	WIND SPEED (KNOTS)							TOTAL OBS	PCT FREQ	MEAN SPD	HOUR (GMT)							
	0-3	4-10	11-21	22-33	34-47	48+					00	03	06	09	12	15	18	21
N	.6	4.8	8.0	3.3	.4	.0		17.1	15.2		17.8	18.1	18.8	12.5	16.2	16.3	14.5	43.8
NE	.5	2.8	2.6	.8	.0	.0		6.6	11.9		5.9	9.3	5.9	4.2	6.4	8.2	6.3	6.3
E	.3	1.9	1.5	.3	.0	.0		3.9	11.4		3.9	3.9	4.2	12.5	3.1	2.8	4.5	18.8
SE	.4	1.5	1.6	.4	.1	.0		4.0	12.5		4.4	3.8	3.9	4.2	3.8	3.9	4.1	.0
S	.2	3.0	3.2	2.3	.4	.0		9.2	15.9		7.2	8.6	11.2	.0	10.0	5.7	10.1	.0
SW	.5	5.5	7.9	3.8	1.1	.0		18.8	16.2		18.8	17.6	17.8	50.0	22.1	17.0	17.9	.0
W	.4	5.1	9.5	6.0	1.3	.0		22.2	17.9		23.9	20.6	21.7	.0	19.3	25.0	24.5	.0
NW	.6	4.3	8.2	3.2	.3	.0		16.6	15.2		16.9	16.4	15.7	16.7	17.7	19.7	15.0	6.3
VAR	.0	.0	.0	.0	.0	.0		.0	.0		.0	.0	.0	.0	.0	.0	.0	.0
CALM	1.6							1.6	.0		1.2	1.7	.9	.0	1.3	1.4	3.0	25.0
TOT OBS	104	568	839	397	70	0	1978		15.3		425	235	428	6	375	141	364	4
TOT PCT	5.3	28.7	42.4	20.1	3.5	.0		100.0			100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0

TABLE 3A

WIND DIR	WIND SPEED (KNOTS)							TOTAL OBS	PCT FREQ	MEAN SPD	HOUR (GMT)				
	0-6	7-16	17-27	28-40	41+						00	03	06	12	18
N	2.4	7.4	5.8	1.3	.2			17.1	15.2		17.9	18.7	16.2	14.8	
NE	1.6	3.2	1.7	.1	.0			6.6	11.9		7.1	5.9	6.9	6.3	
E	1.0	2.1	.6	.2	.0			3.9	11.4		3.9	4.3	3.1	4.7	
SE	.8	2.1	.8	.3	.0			4.0	12.5		4.2	3.9	3.8	4.1	
S	1.6	3.6	2.8	1.1	.1			9.2	15.9		7.7	11.1	8.8	10.0	
SW	2.8	7.6	5.5	2.8	.1			18.8	16.2		18.4	18.2	20.7	17.7	
W	2.1	8.3	7.9	3.6	.3			22.2	17.9		22.7	21.4	20.8	24.2	
NW	1.8	7.9	5.6	1.3	.0			16.6	15.2		16.7	15.7	18.3	14.9	
VAR	.0	.0	.0	.0	.0			.0	.0		.0	.0	.0	.0	
CALM	1.6							1.6	.0		1.4	.9	1.4	3.3	
TOT OBS	312	834	607	211	14	1978			15.3		660	434	516	368	
TOT PCT	15.8	42.2	30.7	10.7	.7			100.0			100.0	100.0	100.0	100.0	



PERIOD: (PRIMARY) 1912-1970  
(OVER-ALL) 1865-1970

# AUGUST

AREA 0014 AUSTRALIAN BIGHT SE  
36.05 132.1E

TABLE 4

PERCENTAGE FREQUENCY OF WIND SPEED BY HOUR (GMT)

HOUR	CALM	1-3	4-10	WIND SPEED (KNOTS)			48+	MEAN	PCT FREQ	TOTAL OBS
				11-21	22-33	34-47				
00003	1.4	4.5	28.5	42.6	19.7	3.3	.0	15.2	100.0	660
06009	.9	2.3	27.4	42.6	22.1	4.6	.0	16.4	100.0	434
12015	1.4	3.5	28.9	44.0	19.8	2.5	.0	15.0	100.0	516
18021	3.3	3.8	30.4	39.7	18.8	4.1	.0	15.0	100.0	368
TOT	32	72	568	839	397	70	0	15.3		1978
PCT	1.6	3.6	28.7	42.4	20.1	3.5	.0	100.0		

TABLE 5

PCT FREQ OF TOTAL CLOUD AMOUNT (EIGHTHS)  
BY WIND DIRECTION

WIND DIR	0-2	3-4	5-7	8 & OBS	TOTAL OBS	MEAN CLOUD COVER
N	4.9	2.2	6.5	2.7		4.5
NE	1.4	.5	1.9	1.1		4.8
E	.8	.7	2.1	.7		4.9
SE	.1	.8	1.8	1.3		5.6
S	.4	2.4	4.8	2.2		4.9
SW	2.7	6.1	7.8	3.2		4.4
W	5.0	8.0	8.4	3.2		4.4
NW	4.7	2.5	5.0	2.6		4.4
VAR	.0	.0	.0	.0		.0
CALM	.5	.2	.3	.6		5.0
TOT OBS	180	205	337	154	876	4.8
TOT PCT	20.5	23.4	38.5	17.6	100.0	

TABLE 6

PERCENTAGE FREQUENCY OF CEILING HEIGHTS (FT, NH >4/8)  
AND OCCURRENCE OF NH <5/8 BY WIND DIRECTION

	000	150	300	600	1000	2000	3500	5000	6500	8000+	NH <5/8	TOTAL
	149	299	599	999	1999	3499	4999	6499	7999		ANY HGT	OBS
N	.0	.0	.3	1.1	1.3	.9	.7	.4	.0	.2	11.3	
NE	.0	.0	.0	.2	.8	.1	.5	.1	.0	.1	3.1	
E	.0	.1	.0	.1	.5	.5	.4	.1	.0	.1	2.5	
SE	.1	.0	.0	.4	1.4	.1	.3	.1	.1	.0	1.4	
S	.0	.0	.1	1.1	2.5	1.8	.4	.5	.0	.0	3.3	
SW	.1	.0	.1	1.2	3.7	1.7	1.4	.3	.0	.0	11.2	
W	.0	.0	.2	2.0	2.7	1.4	1.0	.3	.0	.2	16.6	
NW	.1	.0	.1	1.1	1.2	1.4	.7	.1	.2	.2	9.7	
VAR	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
CALM	.0	.0	.0	.0	.6	.1	.0	.1	.0	.0	.8	
TOT OBS	3	1	8	63	129	71	48	17	3	7	526	876
TOT PCT	.3	.1	.9	7.2	14.7	8.1	5.5	1.9	.3	.8	60.0	100.0

TABLE 7

CUMULATIVE PCT FREQ OF SIMULTANEOUS OCCURRENCE  
OF CEILING HEIGHT (NH >4/8) AND VSBY (NM)

CEILING (FEET)	VSBY (NM)							
	>10	>5	>2	>1	>1/2	>1/4	>50YD	>0
>6500	.8	1.0	1.1	1.1	1.1	1.1	1.1	1.1
>5000	2.6	3.0	3.1	3.1	3.1	3.1	3.1	3.1
>3500	7.6	8.7	8.8	8.8	8.8	8.8	8.8	8.8
>2000	14.7	16.7	17.0	17.0	17.0	17.0	17.0	17.0
>1000	26.8	31.4	31.8	31.8	31.8	31.8	31.8	31.8
>500	30.5	38.1	38.8	38.8	38.9	38.9	38.9	38.9
>300	30.8	38.8	39.6	39.6	39.8	39.8	39.8	39.8
>150	30.8	38.9	39.8	39.8	39.9	39.9	39.9	39.9
>0	31.0	39.1	40.0	40.0	40.1	40.1	40.2	40.2
TOTAL	278	351	359	359	360	360	361	361

TOTAL NUMBER OF OBS: 898

PCT FREQ NH <5/8: 59.8

TABLE 7A

PERCENTAGE FREQ OF LOW CLOUDS (EIGHTHS)

0	1	2	3	4	5	6	7	8 OBS	TOTAL OBS
8.4	9.5	14.0	13.3	13.6	8.6	9.9	8.8	13.7	982

AUGUST

PERIOD: (PRIMARY) 1912-1970  
(OVERALL) 1865-1970AREA 0014 AUSTRALIAN BIGHT SE  
36.05 132.1E

TABLE 8

PERCENT FREQ OF WIND DIRECTION VS OCCURRENCE OR NON-OCCURRENCE OF  
PRECIPITATION WITH VARYING VALUES OF VISIBILITY

VSBY (NM)		N	NE	E	SE	S	SW	W	NW	VAR	CALM	PCT	TOTAL OBS
<1/2	PCP	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
	NO PCP	.0	.0	.0	.1	.0	.0	.0	.0	.0	.0	.1	
	TOT %	.0	.0	.0	.1	.0	.0	.0	.0	.0	.0	.1	
1/2<1	PCP	.0	*	*	.0	.0	.0	.0	.0	.0	.0	.1	
	NO PCP	.2	.2	.0	.0	.0	.0	.0	.1	.0	.0	.5	
	TOT %	.2	.2	*	.0	.0	.0	.0	.1	.0	.0	.6	
1<2	PCP	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
	NO PCP	*	*	.0	.0	.0	*	*	.0	.0	.0	.1	
	TOT %	*	*	.0	.0	.0	*	*	.0	.0	.0	.1	
2<5	PCP	.0	.0	.0	.0	.1	.1	.1	.1	.0	.0	.3	
	NO PCP	.0	.0	.0	.0	.0	.2	.2	.1	.0	.0	.4	
	TOT %	.0	.0	.0	.0	.1	.2	.2	.2	.0	.0	.7	
5<10	PCP	.6	.4	.1	.2	.7	1.1	2.7	.9	.0	.0	6.7	
	NO PCP	6.2	3.1	1.6	.8	3.2	5.0	6.7	5.6	.0	.1	32.3	
	TOT %	6.8	3.6	1.7	1.0	3.9	6.0	9.4	6.5	.0	.1	39.0	
10+	PCP	.2	.0	.1	.1	.4	.8	.8	.3	.0	.0	2.7	
	NO PCP	9.6	3.1	2.6	2.3	3.4	11.7	12.6	8.4	.0	1.0	56.7	
	TOT %	9.8	3.1	2.7	2.4	3.8	12.5	13.4	8.7	.0	1.0	59.4	
TOT OBS													1447
TOT PCT		16.9	7.0	4.5	3.6	9.8	18.8	23.0	15.4	.0	1.1	100.0	

TABLE 9

PERCENT FREQ OF WIND DIRECTION VS WIND SPEED  
WITH VARYING VALUES OF VISIBILITY

VSBY (NM)	SPD KTS	N	NE	E	SE	S	SW	W	NW	VAR	CALM	PCT	TOTAL OBS
<1/2	0-3	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
	4-10	.0	.0	.0	.1	.0	.0	.0	.0	.0	.0	.1	
	11-21	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
	22+	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
	TOT %	.0	.0	.0	.1	.0	.0	.0	.0	.0	.0	.1	
1/2<1	0-3	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
	4-10	.1	.2	*	.0	.0	.0	.0	.1	.0	.0	.4	
	11-21	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
	22+	.1	.1	.0	.0	.0	.0	.0	.0	.0	.0	.1	
	TOT %	.2	.2	*	.0	.0	.0	.0	.1	.0	.0	.5	
1<2	0-3	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
	4-10	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
	11-21	.0	.0	.0	.0	.0	*	*	.0	.0	.0	.1	
	22+	*	*	.0	.0	.0	.0	.0	.0	.0	.0	.1	
	TOT %	*	*	.0	.0	.0	*	*	.0	.0	.0	.1	
2<5	0-3	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
	4-10	.0	.0	.0	.0	.1	.0	.0	.0	.0	.0	.1	
	11-21	.0	.0	.0	.1	.0	*	*	.0	.0	.0	.1	
	22+	.0	.0	.0	.0	.0	.2	.3	.1	.0	.0	.6	
	TOT %	.0	.0	.0	.1	.1	.3	.3	.1	.0	.0	.8	
5<10	0-3	.1	.5	*	.0	.2	.1	.0	.4	.0	.1	1.2	
	4-10	1.8	.8	.7	.4	1.2	1.3	1.9	1.4	.0	.0	9.5	
	11-21	3.0	1.6	.8	.5	1.2	2.2	3.2	2.6	.0	.0	15.0	
	22+	1.5	.6	*	.1	1.3	2.4	4.2	1.8	.0	.0	11.7	
	TOT %	6.4	3.4	1.6	1.1	3.6	5.9	9.2	6.2	.0	.1	37.5	
10+	0-3	.4	.2	.2	.4	.1	.5	.6	.3	.0	1.3	4.0	
	4-10	2.9	1.8	1.5	1.2	1.9	4.1	3.3	2.4	.0	.0	19.0	
	11-21	4.6	.9	.8	.9	2.0	5.2	6.6	5.4	.0	.0	26.4	
	22+	2.0	.2	.1	.2	1.8	2.5	3.4	1.3	.0	.0	11.5	
	TOT %	9.9	3.1	2.7	2.7	5.7	12.2	13.8	9.4	.0	1.3	60.8	
TOT OBS													1542
TOT PCT		16.5	6.7	4.3	3.9	9.6	18.4	23.3	15.8	.0	1.4	100.0	

PERIOD: (PRIMARY) 1912-1970  
(OVER-ALL) 1865-1970

AUGUST

AREA 0014 AUSTRALIAN BIGHT SE  
36.05 132.1E

TABLE 10

PERCENT FREQUENCY OF CEILING HEIGHTS (FEET, NH > 4/8) AND  
OCCURRENCE OF NH < 5/8 BY HOUR

HR (GMT)	000 149	150 299	300 599	600 999	1000 1999	2000 3499	3500 4999	5000 6499	6500 7999	8000+	TOTAL	NH < 5/8 ANY HGT	TOTAL OBS
00003	.4	.4	1.2	8.1	15.5	8.5	6.2	1.9	.0	1.2	43.4	56.6	258
06009	.4	.0	1.6	5.4	14.4	8.9	5.1	2.7	1.2	.4	40.1	59.9	257
12015	.0	.0	.0	6.5	14.4	5.1	3.7	1.4	.0	1.4	32.6	67.4	215
18021	.5	.0	.5	6.7	12.0	8.7	6.7	1.4	.0	.0	36.5	63.5	208
TOT	3	1	8	63	133	74	51	18	3	7	361	577	938
PCT	.3	.1	.9	6.7	14.2	7.9	5.4	1.9	.3	.7	38.5	61.5	100.0

TABLE 11

PERCENT FREQUENCY VSBY (NM) BY HOUR

HR (GMT)	<1/2	1/2<1	1<2	2<5	5<10	10+	TOTAL OBS
00003	.2	.2	.2	.6	41.2	57.6	481
06009	.3	.5	.0	1.1	32.3	65.9	375
12015	.0	1.2	.5	.7	43.4	54.1	412
18021	.0	.6	.0	1.0	31.2	67.2	314
TOT	2	10	3	13	596	958	1582
PCT	.1	.6	.2	.8	37.7	60.6	100.0

TABLE 12

CUMULATIVE PCT FREQ OF RANGES OF VSBY (NM) AND/OR  
CEILING HGT (FEET, NH > 4/8) BY HOUR

HR (GMT)	<150 <500	<600 <1	<1000 <5	1000+ AND 5+	NH < 5/8 AND 5+	TOTAL OBS
00003	.4	2.4	11.5	33.2	55.3	253
06009	.4	2.0	8.0	33.2	58.8	250
12015	.0	.5	7.1	28.4	64.5	197
18021	.5	1.0	9.1	29.8	61.1	198
TOT	3	14	81	282	535	898
PCT	.3	1.6	9.0	31.4	59.6	100.0

TABLE 13

PERCENT FREQUENCY OF RELATIVE HUMIDITY BY TEMP

TEMP F	0-29	30-39	40-49	50-59	60-69	70-79	80-89	90-100	TOTAL OBS	PCT FREQ
65/69	.0	.0	.0	.1	.1	.1	.1	.0	4	.4
60/64	.0	.0	.0	.1	.5	3.4	3.3	.6	88	8.0
55/59	.0	.0	.1	.9	7.2	15.8	19.1	7.1	555	50.2
50/54	.0	.0	.0	2.2	11.5	9.6	11.1	3.0	413	37.4
45/49	.0	.0	.0	.2	1.0	1.1	1.2	.5	43	3.9
40/44	.0	.0	.0	.0	.0	.2	.0	.0	2	.2
TOTAL	0	0	1	38	225	334	384	123	1105	100.0
PCT	.0	.0	.1	3.4	20.4	30.2	34.8	11.1		

TABLE 14

PERCENT FREQUENCY OF WIND DIRECTION BY TEMP

	N	NE	E	SE	S	SW	W	NW	VAR	CALM
65/69	.0	.1	.0	.0	.0	.0	.2	.0	.0	.0
60/64	4.0	1.1	.1	.0	.0	.0	.5	1.8	.0	.0
55/59	11.0	3.8	2.7	1.3	1.7	6.1	13.0	10.3	.0	.3
50/54	1.3	.9	1.4	2.2	7.0	12.1	8.5	2.7	.0	1.2
45/49	.0	.1	.1	.2	1.0	1.2	1.3	.0	.0	.0
40/44	.0	.0	.0	.0	.2	.0	.0	.0	.0	.0
TOTAL	16.4	6.0	4.3	3.7	10.0	19.8	23.6	14.8	.0	1.4

TABLE 15

MEANS, EXTREMES AND PERCENTILES OF TEMP (DEG F) BY HOUR

HR (GMT)	MAX	99%	95%	50%	5%	1%	MIN	MEAN	TOTAL OBS
00003	65	63	61	56	51	47	43	55.9	652
06009	67	63	61	56	50	47	45	56.2	431
12015	62	60	59	55	50	48	46	54.7	578
18021	63	61	58	54	49	47	46	53.9	375
TOT	67	63	60	55	50	47	43	55.3	1986

TABLE 16

PERCENT FREQUENCY OF RELATIVE HUMIDITY BY HOUR

HR (GMT)	0-29	30-39	40-49	50-59	60-69	70-79	80-89	90-100	MEAN	TOTAL OBS
00003	.0	4.5	19.5	34.5	30.6	10.8	77	333		
06009	.0	5.3	21.8	35.2	31.0	6.7	76	284		
12015	.0	1.4	17.6	28.1	40.3	12.6	79	278		
18021	.0	3.8	22.7	19.7	38.7	15.1	78	238		
TOT	0	43	230	340	394	126	78	1133		

AUGUST

PERIOD: (PRIMARY) 1912-1970  
(OVER-ALL) 1865-1970AREA 0014 AUSTRALIAN BIGHT SE  
36.05 132.1E

TABLE 17

PCT FREQ OF AIR TEMPERATURE (DEG F) AND THE OCCURRENCE OF FOG (WITHOUT PRECIPITATION)  
VS AIR-SEA TEMPERATURE DIFFERENCE (DEG F)

AIR-SEA TMP DIF	41 44	45 48	49 52	53 56	57 60	61 64	65 68	TOT	W FOG	NO FOG
7/8	.0	.0	.0	.0	.1	.1	.0	2	.0	.2
6	.0	.0	.0	.0	.0	.2	.1	4	.0	.3
5	.0	.0	.0	.0	.6	.6	.1	16	.0	1.3
4	.0	.0	.0	.3	1.4	.8	.1	33	.2	2.5
3	.0	.0	.1	.5	3.0	.6	.0	53	.0	4.2
2	.0	.0	.0	1.7	4.4	.7	.0	86	.0	6.8
1	.0	.1	.1	4.0	6.0	.4	.0	133	.2	10.4
0	.0	.0	.2	6.2	8.2	.3	.0	188	.2	14.6
-1	.0	.0	.9	9.3	4.5	.1	.0	187	.1	14.7
-2	.0	.0	1.1	7.8	1.6	.0	.0	133	.1	10.5
-3	.0	.0	2.7	6.7	.5	.0	.0	125	.1	9.8
-4	.0	.0	3.6	3.2	.6	.0	.0	93	.2	7.2
-5	.0	.2	4.5	2.9	.4	.0	.0	101	.0	8.0
-6	.0	.2	2.6	.6	.1	.0	.0	44	.1	3.4
-7/-8	.0	.6	2.2	.6	.0	.1	.0	43	.1	3.3
-9/-10	.1	.3	.4	.4	.2	.0	.0	17	.0	1.3
-11/-13	.1	.1	.1	.0	.0	.0	.0	3	.0	.2
-14/-16	.0	.1	.0	.1	.0	.0	.0	2	.0	.2
TOTAL	2	20	234	558	396	50	3	1263	1.1	1249
PCT	.2	1.6	18.5	44.2	31.4	4.0	.2	100.0	1.1	98.9

PERIOD: (OVER-ALL) 1963-1970

TABLE 18

PCT FREQ OF WIND SPEED (KTS) AND DIRECTION VERSUS SEA HEIGHTS (FT)

HGT	1-3	4-10	11-21	22-33	34-47	48+	PCT	1-3	4-10	11-21	22-33	34-47	48+	PCT
<1	.2	.7	.0	.0	.0	.0	.9	.2	.8	.0	.0	.0	.0	1.0
1-2	.0	2.7	.8	.0	.0	.0	3.6	.0	1.5	.1	.0	.0	.0	1.6
3-4	.0	.8	3.5	.0	.0	.0	4.2	.0	.5	1.0	.0	.0	.0	1.5
5-6	.0	.7	2.7	.2	.0	.0	3.6	.0	.0	1.0	.2	.0	.0	1.3
7	.0	.0	.6	1.0	.0	.0	1.6	.0	.0	.1	.3	.0	.0	.3
8-9	.0	.0	.5	.7	.2	.0	1.5	.0	.0	.1	.3	.0	.0	.3
10-11	.0	.0	.2	.4	.0	.0	.7	.0	.0	.0	.0	.0	.0	.0
12	.0	.0	.0	.2	.0	.0	.2	.0	.0	.0	.0	.0	.0	.0
13-16	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
17-19	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
20-22	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
23-25	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
26-32	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
33-40	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
41-48	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
49-60	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
61-70	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
71-86	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
87+	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
TOT PCT	.2	4.9	8.4	2.6	.2	.0	16.3	.2	2.8	2.2	.8	.0	.0	6.0

HGT	1-3	4-10	11-21	22-33	34-47	48+	PCT	1-3	4-10	11-21	22-33	34-47	48+	PCT
<1	.4	.0	.0	.0	.0	.0	.4	.2	.0	.0	.0	.0	.0	.2
1-2	.0	1.3	.2	.0	.0	.0	1.5	.0	1.0	.0	.0	.0	.0	1.0
3-4	.0	.8	1.5	.0	.0	.0	2.3	.0	1.4	.2	.0	.0	.0	1.6
5-6	.0	.0	.4	.0	.0	.0	.4	.0	.0	.0	.1	.0	.0	.1
7	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
8-9	.0	.0	.0	.5	.0	.0	.5	.0	.0	.0	.3	.0	.0	.3
10-11	.0	.0	.0	.0	.0	.0	.0	.0	.0	.2	.0	.2	.0	.4
12	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
13-16	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
17-19	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
20-22	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
23-25	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
26-32	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
33-40	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
41-48	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
49-60	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
61-70	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
71-86	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
87+	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
TOT PCT	.4	2.1	2.1	.5	.0	.0	5.2	.2	2.5	.4	.3	.2	.0	3.6

PERIOD: (OVER-ALL) 1963-1970

AUGUST  
TABLE 18 (CONT)

AREA 0014 AUSTRALIAN BIGHT SE  
36.05 132.1E

PCT FREQ OF WIND SPEED (KTS) AND DIRECTION VERSUS SEA HEIGHTS (FT)

HGT	S							PCT	SW							PCT
	1-3	4-10	11-21	22-33	34-47	48+			1-3	4-10	11-21	22-33	34-47	48+		
<1	.2	.2	.0	.0	.0	.0		.4	.7	.0	.0	.0	.0	.0		1.2
1-2	.0	1.1	.2	.0	.0	.0		1.3	1.6	.7	.0	.0	.0	.0		2.6
3-4	.0	1.0	1.9	.2	.0	.0		3.0	1.9	3.4	.1	.0	.0	.0		5.5
5-6	.0	.0	.9	.5	.0	.0		1.4	.7	2.4	.9	.0	.0	.0		3.9
7	.0	.0	.9	.6	.0	.0		1.5	.1	1.2	.7	.2	.0	.0		2.1
8-9	.0	.0	.0	1.4	.2	.0		1.6	.0	.2	1.2	.3	.0	.0		1.7
10-11	.0	.0	.0	.0	.0	.0		.0	.0	.5	.7	.0	.0	.0		1.2
12	.0	.0	.0	.2	.0	.0		.2	.0	.0	.1	.4	.0	.0		.5
13-16	.0	.0	.0	.0	.2	.0		.2	.0	.0	.0	.1	.0	.0		.1
17-19	.0	.0	.0	.4	.0	.0		.4	.0	.0	.0	.2	.0	.0		.2
20-22	.0	.0	.0	.0	.0	.0		.0	.0	.0	.0	.0	.0	.0		.0
23-25	.0	.0	.0	.0	.2	.0		.2	.0	.0	.0	.1	.0	.0		.1
26-32	.0	.0	.0	.0	.0	.0		.0	.0	.0	.0	.0	.0	.0		.0
33-40	.0	.0	.0	.0	.0	.0		.0	.0	.0	.0	.0	.0	.0		.0
41-48	.0	.0	.0	.0	.0	.0		.0	.0	.0	.0	.0	.0	.0		.0
49-60	.0	.0	.0	.0	.0	.0		.0	.0	.0	.0	.0	.0	.0		.0
61-70	.0	.0	.0	.0	.0	.0		.0	.0	.0	.0	.0	.0	.0		.0
71-86	.0	.0	.0	.0	.0	.0		.0	.0	.0	.0	.0	.0	.0		.0
87+	.0	.0	.0	.0	.0	.0		.0	.0	.0	.0	.0	.0	.0		.0
TOT PCT	.2	2.3	3.8	3.3	.5	.0		10.3	.9	4.9	8.3	3.6	1.3	.0		19.0

HGT	W							PCT	NW							PCT	TOTAL PCT
	1-3	4-10	11-21	22-33	34-47	48+			1-3	4-10	11-21	22-33	34-47	48+			
<1	.4	.7	.0	.0	.0	.0		1.2	.0	.2	.0	.0	.0	.0		.2	
1-2	.2	2.1	.6	.0	.0	.0		3.0	.0	1.9	.0	.0	.0	.0		1.9	
3-4	.0	1.6	3.3	.0	.0	.0		5.0	.0	1.4	1.5	.2	.0	.0		3.2	
5-6	.0	.4	4.9	1.5	.0	.0		6.8	.0	.3	4.9	.5	.0	.0		5.8	
7	.0	.4	1.7	.9	.2	.0		3.2	.0	.0	.9	.4	.0	.0		1.3	
8-9	.0	.0	.2	1.5	.2	.0		1.9	.0	.0	.3	.1	.0	.0		.3	
10-11	.0	.0	.2	.6	.0	.0		.8	.0	.0	.2	.3	.0	.0		.5	
12	.0	.0	.2	.2	.0	.0		.4	.0	.0	.2	.0	.0	.0		.2	
13-16	.0	.0	.0	.7	.0	.0		.7	.0	.0	.0	.2	.0	.0		.2	
17-19	.0	.0	.0	.0	.0	.0		.0	.0	.0	.0	.0	.0	.0		.0	
20-22	.0	.0	.0	.0	.0	.0		.0	.0	.0	.0	.0	.0	.0		.0	
23-25	.0	.0	.0	.4	.0	.0		.4	.0	.0	.0	.0	.0	.0		.0	
26-32	.0	.0	.0	.0	.0	.0		.0	.0	.0	.0	.0	.0	.0		.0	
33-40	.0	.0	.0	.0	.0	.0		.0	.0	.0	.0	.0	.0	.0		.0	
41-48	.0	.0	.0	.0	.0	.0		.0	.0	.0	.0	.0	.0	.0		.0	
49-60	.0	.0	.0	.0	.0	.0		.0	.0	.0	.0	.0	.0	.0		.0	
61-70	.0	.0	.0	.0	.0	.0		.0	.0	.0	.0	.0	.0	.0		.0	
71-86	.0	.0	.0	.0	.0	.0		.0	.0	.0	.0	.0	.0	.0		.0	
87+	.0	.0	.0	.0	.0	.0		.0	.0	.0	.0	.0	.0	.0		.0	
TOT PCT	.7	5.3	11.2	5.8	.4	.0		23.2	.0	3.8	8.1	1.8	.0	.0		13.6	97.1

WIND SPEED (KTS) VS SEA HEIGHT (FT)

HGT	0-3	4-10	11-21	22-33	34-47	48+	PCT	TOT DBS
<1	6.9	3.2	.0	.0	.0	.0	10.1	
1-2	.4	13.5	2.6	.0	.0	.0	16.5	
3-4	.2	9.2	15.8	.4	.0	.0	25.7	
5-6	.0	1.9	16.9	3.9	.0	.0	22.7	
7	.0	.4	5.1	3.9	.4	.0	9.9	
8-9	.0	.0	1.3	5.8	.9	.0	7.9	
10-11	.0	.0	1.3	1.9	.2	.0	3.4	
12	.0	.0	.4	.6	.4	.0	1.5	
13-16	.0	.0	.0	.9	.2	.0	1.1	
17-19	.0	.0	.0	.4	.2	.0	.6	
20-22	.0	.0	.0	.0	.0	.0	.0	
23-25	.0	.0	.0	.4	.2	.0	.6	
26-32	.0	.0	.0	.0	.0	.0	.0	
33-40	.0	.0	.0	.0	.0	.0	.0	
41-48	.0	.0	.0	.0	.0	.0	.0	
49-60	.0	.0	.0	.0	.0	.0	.0	
61-70	.0	.0	.0	.0	.0	.0	.0	
71-86	.0	.0	.0	.0	.0	.0	.0	
87+	.0	.0	.0	.0	.0	.0	.0	
TOT PCT	7.5	28.3	43.5	18.2	2.6	.0	100.0	467

PERIOD: (OVER-ALL) 1949-1970

TABLE 19

PERCENT FREQUENCY OF WAVE HEIGHT (FT) VS WAVE PERIOD (SECONDS)

PERIOD (SEC)	<1	1-2	3-4	5-6	7	8-9	10-11	12	13-16	17-19	20-22	23-25	26-32	33-40	41-48	49-60	61-70	71-86	87+	TOTAL	MEAN HGT
<6	.7	2.0	5.7	3.2	1.9	.7	.9	.4	.3	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	109
6-7	.0	.4	1.5	6.0	5.1	1.9	3.1	1.6	1.3	.4	.3	.1	.0	.0	.0	.0	.0	.0	.0	.0	142
8-9	.0	.0	1.0	4.5	5.3	4.8	2.5	1.9	1.9	.4	.1	.3	.6	.0	.0	.0	.0	.0	.0	.0	163
10-11	.0	.0	.6	2.5	3.1	3.4	2.8	1.6	2.9	.7	.6	.3	.1	.0	.0	.0	.0	.0	.0	.0	127
12-13	.0	.0	.3	.3	1.2	1.2	1.5	.7	1.8	.7	.3	.4	.1	.0	.0	.0	.0	.0	.0	.0	58
>13	.0	.0	.0	.0	.4	.3	.6	.4	.9	.0	.3	.0	.0	.0	.0	.0	.0	.0	.0	.0	20
INDET	1.3	.9	1.2	1.8	1.9	.9	.1	.0	.4	.1	.1	.0	.1	.0	.0	.0	.0	.0	.0	.0	61
TOTAL	14	23	70	125	129	90	78	46	65	17	12	8	7	0	0	0	0	0	0	0	584
PCT	2.0	3.4	10.2	18.3	18.9	13.2	11.4	6.7	9.5	2.5	1.8	1.2	1.0	.0	.0	.0	.0	.0	.0	.0	100.0



## SEPTEMBER

PERIOD: (PRIMARY) 1911-1970  
(OVER-ALL) 1855-1970AREA 0014 AUSTRALIAN BIGHT SE  
36.05 132.2E

TABLE 1

## PERCENT FREQUENCY OF WEATHER OCCURRENCE BY WIND DIRECTION

PRECIPITATION TYPE										OTHER WEATHER PHENOMENA						
WIND DIR	RAIN	RAIN SHWR	DRZL	FRZG PCPN	SNOW	OTHER FRZN PCPN	HAIL	PCPN AT DB TIME	PCPN PAST HOUR	THDR LTNG	FGG WD PCPN	FGG WD PCPN PAST HR	SMOKE HAZE	SPRAY BLWG SNOW	NO SIG WEA	
N	1.2	2.5	1.2	.0	.0	.0	.6	5.4	.0	.0	.9	.0	.9	.0	92.8	
NE	1.7	.8	.8	.0	.0	.0	.0	3.3	1.5	.8	1.9	.0	1.5	.0	90.9	
E	7.2	1.1	3.0	.0	.0	.0	.0	11.4	1.5	.0	3.0	.0	.8	.0	83.3	
SE	1.3	4.3	3.0	.0	.0	.0	.0	8.6	2.6	1.3	2.0	.0	.0	.0	85.4	
S	1.8	3.6	3.0	.0	.0	.0	.0	8.3	1.6	.9	.8	.0	.6	.0	88.0	
SW	2.0	7.4	1.4	.0	.0	.0	.2	11.0	5.5	.3	.3	.0	.9	.0	82.1	
W	4.8	7.1	3.8	.0	.0	.0	.2	15.5	2.6	.9	1.6	.0	.2	.0	80.0	
NW	2.0	4.6	.8	.0	.0	.0	.0	7.3	.5	1.8	1.3	.0	.5	.0	88.5	
VAR	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
CALM	6.3	.0	.0	.0	.0	.0	.0	6.3	.0	.0	.0	.0	.0	.0	93.8	
TOT PCT	2.7	4.8	2.1	.0	.0	.0	.1	9.7	2.3	.8	1.2	.0	.6	.0	85.6	
TOT OBS:	1426															

TABLE 2

## PERCENT FREQUENCY OF WEATHER OCCURRENCE BY HOUR

HOUR (GMT)	PRECIPITATION TYPE							OTHER WEATHER PHENOMENA								
	RAIN	RAIN SHWR	DRZL	FRZG PCPN	SNOW	OTHER FRZN PCPN	HAIL	PCPN AT DB TIME	PCPN PAST HOUR	THDR LTNG	FGG WD PCPN	FGG WD PCPN PAST HR	SMOKE HAZE	SPRAY BLWG BLWG	DUST SNOW	NO SIG WEA
00003	3.4	5.3	1.2	.0	.0	.0	.0	9.9	1.7	.0	1.5	.0	.5	.0		86.4
06009	2.8	3.1	2.5	.0	.0	.0	.3	8.7	1.7	.3	1.4	.0	.3	.0		87.6
12015	2.9	4.7	2.6	.0	.0	.0	.0	9.9	2.3	1.8	1.3	.0	.8	.0		84.6
18021	2.1	6.2	2.1	.0	.0	.0	.3	10.6	3.8	1.0	.3	.0	1.0	.0		83.2
TOT PCT TOT OBS:	2.8 1445	4.8	2.1	.0	.0	.0	.1	9.8	2.3	.8	1.2	.0	.6	.0		85.6

TABLE 3

## PERCENTAGE FREQUENCY OF WIND DIRECTION BY SPEED AND BY HOUR

WIND DIR	WIND SPEED (KNOTS)							48+	TOTAL OBS	PCT FREQ	MEAN SPD	HOUR (GMT)						
	0-3	4-10	11-21	22-33	34-47	00	03					06	09	12	15	18	21	
N	.2	4.1	5.8	1.8	.3	*		12.3	14.6		10.9	15.6	12.9	11.1	12.1	11.5	11.2	7.1
NE	.1	3.4	4.5	.9	.0	.0		8.9	12.8		8.8	7.7	9.1	.0	10.1	8.8	8.5	14.3
E	.2	1.9	2.2	.3	.0	.0		4.5	11.9		5.4	4.6	4.1	.0	5.0	3.7	3.7	14.3
SE	.2	2.9	2.0	.6	*	.0		5.7	12.0		6.0	7.7	4.8	.0	5.2	8.1	4.8	.0
S	.4	4.3	3.3	2.1	.4	.0		10.5	14.5		11.6	7.7	10.4	22.2	12.7	8.1	10.0	7.1
SW	.8	5.2	8.6	4.7	.8	.1		20.1	16.5		21.7	19.2	20.6	22.2	18.6	22.3	18.7	42.9
W	.5	6.6	10.2	5.0	1.0	*		23.3	16.3		22.2	22.5	22.8	11.1	22.7	23.3	26.8	7.1
NW	.3	5.6	5.9	1.4	.2	.0		13.5	13.3		12.8	14.2	14.7	33.3	11.8	12.8	14.1	7.1
VAR	.0	.0	.0	.0	.0	.0		.0	.0		.0	.0	.0	.0	.0	.0	.0	.0
CALM	1.1							1.1	.0		.5	.7	.5	.0	1.8	1.4	2.2	.0
TOT OBS	79	686	858	338	54	3	2018		14.6		398	272	429	9	393	148	362	7
TOT PCT	3.9	34.0	42.5	16.7	2.7	.1		100.0			100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0

TABLE 3A

WIND DIR	WIND SPEED (KNOTS)					TOTAL OBS	PCT FREQ	MEAN SPD	HOUR (GMT)			
	0-6	7-16	17-27	28-40	41+				00	06	12	18
N	1.3	6.7	3.4	.8	*		12.3	14.6	12.8	12.8	11.9	11.1
NE	1.3	5.3	2.0	.2	.0		8.9	12.8	8.4	9.0	9.7	8.6
E	1.0	2.5	1.0	*	.0		4.5	11.9	5.1	4.1	4.7	3.9
SE	1.3	2.9	1.3	.2	.0		5.7	12.0	6.7	4.7	6.0	4.7
S	2.0	4.7	2.7	1.1	*		10.5	14.5	10.0	10.7	11.5	10.0
SW	2.4	8.4	6.5	2.5	.2		20.1	16.5	20.7	20.6	19.6	19.2
W	2.9	9.9	7.8	2.4	.4		23.3	16.3	22.4	22.6	22.9	26.4
NW	2.1	7.4	3.2	.7	.0		13.5	13.3	13.4	15.1	12.1	14.0
VAR	.0	.0	.0	.0	.0		.0	.0	.0	.0	.0	.0
CALM	1.1						1.1	.0	.6	.5	1.7	2.2
TOT OBS	311	966	565	162	14	2018		14.6	670	438	541	369
TOT PCT	15.4	47.9	28.0	8.0	.7		100.0		100.0	100.0	100.0	100.0

SEPTEMBER

PERIOD: (PRIMARY) 1911-1970  
(OVER-ALL) 1855-1970

AREA 0014 AUSTRALIAN BIGHT SE  
36.05 132.2E

TABLE 4

PERCENTAGE FREQUENCY OF WIND SPEED BY HOUR (GMT)

HOUR	CALM	1-3	4-10	WIND SPEED (KNOTS)			48+	MEAN	PCT FREQ	TOTAL OBS
				11-21	22-33	34-47				
00003	.6	3.3	33.1	43.0	17.2	2.4	.4	14.7	100.0	670
06009	.5	2.1	31.7	43.4	18.7	3.7	.0	15.4	100.0	438
12015	1.7	2.8	35.7	41.8	14.8	3.3	.0	14.1	100.0	541
18021	2.2	2.7	35.8	41.7	16.5	1.1	.0	14.0	100.0	369
TOT	23	56	686	858	338	54	3	14.6		2018
PCT	1.1	2.8	34.0	42.5	16.7	2.7	.1	100.0		

TABLE 5

PCT FREQ OF TOTAL CLOUD AMOUNT (EIGHTHS)  
BY WIND DIRECTION

WIND DIR	0-2	3-4	5-7	8 & OBSCH	TOTAL OBS	MEAN CLOUD COVER
N	5.7	1.4	2.4	2.2	3.5	
NE	4.0	1.4	2.3	1.9	3.8	
E	.8	.6	1.9	1.2	5.4	
SE	.4	.8	2.1	1.3	5.8	
S	1.3	3.1	4.0	2.3	5.1	
SW	2.2	4.7	9.7	2.6	5.1	
W	4.7	5.8	8.0	5.0	4.9	
NW	6.0	2.6	3.0	2.5	3.7	
VAR	.0	.0	.0	.0	.0	
CALM	.9	.2	.2	.0	2.0	
TOT OBS	243	193	324	178	938	4.5
TOT PCT	25.9	20.6	34.5	19.0	100.0	

TABLE 6

PERCENTAGE FREQUENCY OF CEILING HEIGHTS (FT, NH >4/8)  
AND OCCURRENCE OF NH <5/8 BY WIND DIRECTION

000	150	300	600	1000	2000	3500	5000	6500	8000+	NH <5/8	TOTAL
149	299	599	999	1999	3499	4999	6499	7999		ANY HGT	OBS
.0	.0	.0	.3	.7	.6	.5	.1	.0	.3	9.1	
.0	.0	.0	.3	.7	.8	.9	.1	.1	.2	6.4	
.0	.0	.0	.3	.9	.6	.1	.2	.3	.1	1.9	
.0	.0	.0	.7	.9	.5	1.0	.0	.0	.0	1.5	
.0	.0	.1	.7	1.7	1.8	1.2	.2	.0	.0	5.8	
.0	.0	.0	2.0	3.3	2.4	.9	.3	.1	.0	10.3	
.0	.0	.3	1.5	4.9	1.8	1.4	.4	.1	.1	13.0	
.1	.0	.1	.2	1.8	.6	1.0	.1	.0	.2	9.8	
.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
.0	.0	.0	.0	.1	.0	.1	.0	.0	.0	1.1	
.1	.0	.5	.8	141	85	67	14	6	8	553	
.1	.0	.5	6.2	15.0	9.1	7.1	1.5	.6	.9	59.0	938

TABLE 7

CUMULATIVE PCT FREQ OF SIMULTANEOUS OCCURRENCE  
OF CEILING HEIGHT (NH >4/8) AND VSBY (NM)

CEILING (FEET)	VSBY (NM)							
	>10	>5	>2	>1	>1/2	>1/4	>50YD	>0
>6500	1.3	1.5	1.5	1.5	1.5	1.5	1.5	1.5
>5000	2.5	3.0	3.0	3.0	3.0	3.0	3.0	3.0
>3500	9.6	10.1	10.1	10.1	10.1	10.1	10.1	10.1
>2000	17.7	19.2	19.3	19.3	19.3	19.3	19.3	19.3
>1000	30.8	33.8	34.1	34.2	34.2	34.2	34.2	34.2
>600	35.4	39.9	40.3	40.5	40.5	40.5	40.5	40.5
>300	35.6	40.4	40.8	41.0	41.0	41.0	41.0	41.0
>150	35.6	40.4	40.8	41.0	41.0	41.0	41.0	41.0
>0	35.6	40.4	40.8	41.0	41.0	41.0	41.1	41.1
TOTAL	337	382	386	388	388	388	389	389

TOTAL NUMBER OF OBS: 946

PCT FREQ NH <5/8: 58.9

TABLE 7A

PERCENTAGE FREQ OF LOW CLOUDS (EIGHTHS)

0	1	2	3	4	5	6	7	8	OBSCH	TOTAL OBS
14.3	7.1	10.3	12.6	10.8	6.8	11.7	8.9	15.5	.0	1012

SEPTEMBER

PERIOD: (PRIMARY) 1911-1970  
(OVER-ALL) 1855-1970

AREA 0014 AUSTRALIAN BIGHT SE  
36.05 132.2E

TABLE 8

PERCENT FREQ OF WIND DIRECTION VS OCCURRENCE OR NON-OCCURRENCE OF  
PRECIPITATION WITH VARYING VALUES OF VISIBILITY

VISBY (NM)		N	NE	E	SE	S	SW	W	NW	VAR	CALM	PCT	TOTAL OBS
<1/2	PCP	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
	NO PCP	.0	.0	.0	.0	.0	.0	.0	.1	.0	.0	.1	
	TOT %	.0	.0	.0	.0	.0	.0	.0	.1	.0	.0	.1	
1/2<1	PCP	.0	.0	.1	.0	.0	.1	.0	.0	.0	.0	.1	
	NO PCP	* .1	.1	.1	.1	.1	.1	.0	* .0	.0	.0	.6	
	TOT %	* .1	.2	.1	.1	.1	.1	.0	* .0	.0	.0	.7	
1<2	PCP	.0	.0	.0	.1	.0	.1	.1	.1	.0	.0	.4	
	NO PCP	.1	.1	* .0	.1	.1	.2	.2	.0	.0	.0	.8	
	TOT %	.1	.1	* .1	.1	.1	.3	.2	.1	.0	.0	1.1	
2<5	PCP	.0	.1	.1	*	.1	.1	.1	.0	.0	.0	.6	
	NO PCP	.0	.1	.1	.1	.0	.1	.0	.0	.0	.0	.4	
	TOT %	.0	.1	.2	.1	.1	.2	.1	.0	.0	.0	.9	
5<10	PCP	.6	.1	.2	.3	.6	1.4	1.7	.8	.0	.0	5.8	
	NO PCP	3.1	1.9	1.5	1.5	3.1	5.3	5.1	2.9	.0	.3	24.6	
	TOT %	3.7	2.1	1.7	1.8	3.7	6.7	6.8	3.7	.0	.3	30.4	
10+	PCP	.0	.1	.1	*	.3	.5	1.6	.1	.0	.1	2.8	
	NO PCP	8.0	6.5	2.4	3.2	7.6	12.2	13.8	9.4	.0	.8	63.9	
	TOT %	8.0	6.6	2.5	3.2	7.9	12.7	15.4	9.4	.0	.8	66.7	
TOT OBS													1426
TOT PCT													100.0

TABLE 9

PERCENT FREQ OF WIND DIRECTION VS WIND SPEED  
WITH VARYING VALUES OF VISIBILITY

VISBY (NM)	SPD KTS	N	NE	E	SE	S	SW	W	NW	VAR	CALM	PCT	TOTAL OBS
<1/2	0-3	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
	4-10	.0	.0	.0	.0	.0	.0	.0	.1	.0	.0	.1	.1
	11-21	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
	22+	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
	TOT %	.0	.0	.0	.0	.0	.0	.0	.1	.0	.0	.1	.1
1/2<1	0-3	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
	4-10	.0	.1	.1	.0	.0	.1	.0	.0	.0	.0	.3	.3
	11-21	*	*	.1	.1	.1	.0	*	.0	.0	.0	.3	.3
	22+	.0	.0	.0	.0	.0	.1	.0	.0	.0	.0	.1	.1
	TOT %	*	.1	.2	.1	.1	.1	.0	*	.0	.0	.6	.6
1<2	0-3	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
	4-10	.1	.1	*	.0	.1	.1	.0	.1	.0	.0	.4	.4
	11-21	*	*	.0	.1	.0	.1	.1	.1	.0	.0	.5	.5
	22+	.0	.0	.0	.0	.0	.1	.1	.0	.0	.0	.2	.2
	TOT %	.1	.1	*	.1	.1	.3	.2	.1	.0	.0	1.0	1.0
2<5	0-3	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
	4-10	.0	.1	.0	.0	.0	.0	.0	.0	.0	.0	.1	.1
	11-21	*	.1	.1	*	.1	.1	*	*	.0	.0	.5	.5
	22+	.0	.0	.1	.1	.0	.1	.1	.0	.0	.0	.4	.4
	TOT %	*	.1	.2	.1	.1	.3	.2	*	.0	.0	1.0	1.0
5<10	0-3	.2	.1	.2	.1	.1	.0	.2	.1	.0	.3	1.1	1.1
	4-10	.8	.4	.5	.8	.8	1.4	1.8	1.4	.0	.0	7.9	7.9
	11-21	1.6	1.3	.9	.8	1.2	2.5	2.3	1.5	.0	.0	12.2	12.2
	22+	.9	.1	.1	.3	1.4	2.3	2.1	.3	.0	.0	7.4	7.4
	TOT %	3.4	1.9	1.7	2.0	3.4	6.2	6.3	3.4	.0	.3	28.6	28.6
10+	0-3	.1	.1	.0	.1	.5	.5	.1	.2	.0	.9	2.5	2.5
	4-10	3.1	2.7	1.3	1.9	3.7	3.4	4.8	4.3	.0	.0	25.1	25.1
	11-21	4.1	3.0	1.1	1.2	2.7	5.6	7.3	4.4	.0	.0	29.3	29.3
	22+	1.1	.8	.1	.4	1.3	3.6	3.6	.8	.0	.0	11.6	11.6
	TOT %	8.4	6.5	2.5	3.7	8.1	13.1	15.7	9.7	.0	.9	68.6	68.6
TOT OBS													1547
TOT PCT													100.0

SEPTEMBER

PERIOD: (PRIMARY) 1911-1970  
(OVER-ALL) 1855-1970

AREA 0014 AUSTRALIAN BIGHT SE  
36.05 132.2E

TABLE 10

PERCENT FREQUENCY OF CEILING HEIGHTS (FEET, NH > 4/8) AND  
OCCURRENCE OF NH < 5/8 BY HOUR

HR	000	100	300	600	1000	2000	3500	5000	6500	8000+	TOTAL	NH < 5/8 ANY HGT	TOTAL OBS
(GMT)	149	299	599	999	1999	3499	4999	6499	7999				
00003	.0	.0	.4	7.7	14.2	11.9	6.1	1.1	.4	.8	42.5	57.5	261
06009	.4	.0	.7	7.1	13.4	5.6	9.7	1.9	1.5	.4	40.7	59.3	268
12015	.0	.0	.0	3.9	13.0	10.0	7.4	.9	.0	1.3	36.4	63.6	231
18021	.0	.0	1.0	5.3	18.4	8.7	4.3	1.9	.5	1.0	41.1	58.9	207
TOT	1	0	5	59	141	87	68	14	6	8	389	578	967
PCT	.1	.0	.5	6.1	14.6	9.0	7.0	1.4	.6	.8	40.2	59.8	100.0

TABLE 11

PERCENT FREQUENCY VSBY (NM) BY HOUR

HR	<1/2	1/2<1	1<2	2<5	5<10	10+	TOTAL
(GMT)							OBS
00003	.2	.4	.7	.9	35.1	62.7	450
06009	.3	1.1	.8	1.1	22.3	74.5	377
12015	.0	.7	1.6	1.2	33.3	63.2	427
18021	.0	.3	1.0	.6	22.1	76.0	312
TOT	2	10	16	15	453	1070	1566
PCT	.1	.6	1.0	1.0	28.9	68.3	100.0

TABLE 12

CUMULATIVE PCT FREQ OF RANGES OF VSBY (NM) AND/OR  
CEILING HGT (FEET, NH > 4/8), BY HOUR

HR	<150	<600	<1000	1000+	NH < 5/8	TOTAL
(GMT)	<50YD	<1	<5	AND 5+	AND 5+	OBS
00003	.0	.8	9.4	34.8	55.9	256
06009	.4	1.1	9.2	32.4	58.4	262
12015	.0	.0	4.5	33.0	62.5	224
18021	.0	1.0	6.9	35.3	57.8	204
TOT	1	7	72	320	554	946
PCT	.1	.7	7.6	33.8	58.6	100.0

TABLE 13

PERCENT FREQUENCY OF RELATIVE HUMIDITY BY TEMP

TEMP F	0-29	30-39	40-49	50-59	60-69	70-79	80-89	90-100	TOTAL	PCT
									OBS	FREQ
64/69	.0	.0	.0	.0	.1	.2	.1	.1	5	.5
60/64	.0	.0	.1	.3	1.0	4.0	3.6	.9	111	10.0
55/59	.0	.0	.3	2.4	7.7	15.7	19.7	6.9	582	52.6
50/54	.0	.0	.1	2.4	9.1	9.4	10.6	3.4	387	35.0
45/49	.0	.0	.0	.0	.5	.5	.6	.4	21	1.9
TOTAL	0	0	5	55	203	329	385	129	1106	100.0
PCT	.0	.0	.5	5.0	18.4	29.7	34.8	11.7		

TABLE 14

PERCENT FREQUENCY OF WIND DIRECTION BY TEMP

N	NE	E	SE	S	SW	W	NW	VAR	CALM
.2	.1	.1	.0	.0	.0	.0	.1	.0	.0
3.2	1.9	.2	.6	.3	.4	1.2	2.1	.0	.2
7.1	5.0	2.9	2.1	3.7	8.0	13.7	9.5	.0	.6
1.3	1.8	1.1	2.8	6.1	10.9	8.3	2.1	.0	.5
.0	.0	.0	*	.4	.9	.5	.0	.0	.0
11.7	8.8	4.3	5.5	10.5	20.3	23.7	13.8	.0	1.4

TABLE 15

MEANS, EXTREMES AND PERCENTILES OF TEMP (DEG F) BY HOUR

HR	MAX	95%	95%	50%	5%	1%	MIN	MEAN	TOTAL
(GMT)									OBS
00003	67	64	61	56	51	49	47	56.2	651
06009	65	64	62	57	52	50	46	56.7	431
12015	65	62	60	55	50	48	45	55.1	537
18021	65	62	60	55	50	48	46	54.5	372
TOT	67	63	61	56	50	49	45	55.7	1991

TABLE 16

PERCENT FREQUENCY OF RELATIVE HUMIDITY BY HOUR

HOUR	0-29	30-39	40-49	50-59	60-69	70-79	80-89	90-100	MEAN	TOTAL
(GMT)										OBS
00003	.0	6.5	21.4	26.9	34.1	11.0	77	308		
06009	.0	5.4	20.2	35.0	33.0	6.4	76	297		
12015	.0	4.9	15.0	28.7	34.6	16.8	79	286		
18021	.0	4.8	15.8	27.6	39.0	12.7	79	228		
TOT	0	61	205	332	391	130	78	1119		

SEPTEMBER

PERIOD: (PRIMARY) 1911-1970  
(OVER-ALL) 1855-1970

AREA 0014 AUSTRALIAN BIGHT SE  
36.05 132.2E

TABLE 17

PCT FREQ OF AIR TEMPERATURE (DEG F) AND THE OCCURRENCE OF FOG (WITHOUT PRECIPITATION)  
VS AIR-SEA TEMPERATURE DIFFERENCE (DEG F)

AIR-SEA TMP DIF	45 48	49 52	53 56	57 60	61 64	65 68	TOT	W FOG	NO FOG
9/10	.0	.0	.0	.0	.3	.0	3	.0	.3
7/8	.0	.0	.0	.0	.0	.3	4	.0	.3
6	.0	.0	.0	.1	.3	.2	7	.0	.6
5	.0	.0	.2	.8	1.3	.0	26	.0	2.2
4	.0	.0	.3	1.4	1.2	.0	35	.0	2.9
3	.0	.0	.4	2.8	1.8	.0	59	.1	4.9
2	.0	.1	1.2	5.8	.8	.0	91	.3	7.4
1	.0	.1	2.8	7.8	.2	.0	129	.1	10.8
0	.0	.1	8.6	7.6	.2	.0	196	.4	16.1
-1	.0	.2	10.8	4.2	.0	.0	180	.3	14.9
-2	.0	1.3	7.9	1.6	.0	.0	128	.1	10.7
-3	.0	2.4	7.1	.6	.0	.0	120	.1	10.0
-4	.2	3.8	4.1	.1	.0	.0	97	.1	8.1
-5	.3	3.0	1.8	.0	.0	.0	60	.0	5.0
-6	.3	1.8	.3	.1	.0	.0	30	.0	2.5
-7/-8	.1	1.2	.3	.0	.0	.0	18	.0	1.5
-9/-10	.1	.4	.0	.0	.0	.0	6	.0	.5
-14/-16	.1	.0	.0	.0	.0	.0	1	.0	.1
TOTAL	11	543		68			16		1174
PCT	.9	14.4	45.6	32.9	5.7	.5	100.0	1.3	98.7

PERIOD: (OVER-ALL) 1963-1970

TABLE 18

PCT FREQ OF WIND SPEED (KTS) AND DIRECTION VERSUS SEA HEIGHTS (FT)

HGT	1-3	4-10	11-21	22-33	34-47	48+	PCT	1-3	4-10	11-21	22-33	34-47	48+	PCT
<1	.0	.1	.0	.0	.0	.0	.1	.0	.4	.0	.0	.0	.0	.4
1-2	.0	3.1	1.8	.0	.0	.0	4.9	.0	1.4	.9	.0	.0	.0	2.3
3-4	.0	1.1	1.5	.5	.0	.0	3.1	.0	1.6	1.5	.2	.0	.0	3.3
5-6	.0	.2	1.4	.1	.2	.0	1.9	.0	.7	.7	.0	.0	.0	.8
7	.0	.1	.5	.7	.2	.0	1.6	.0	.2	.4	.0	.0	.0	.7
8-9	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
10-11	.0	.0	.0	.5	.0	.0	.5	.0	.0	.0	.1	.0	.0	.1
12	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
13-16	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.2	.0	.0	.0
17-19	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
20-22	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
23-25	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
26-32	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
33-40	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
41-48	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
49-60	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
61-70	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
71-86	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
87+	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
TOT PCT	.0	4.7	5.2	1.9	.4	.0	12.2	.0	3.4	3.4	1.0	.0	.0	7.8

HGT	1-3	4-10	11-21	22-33	34-47	48+	PCT	1-3	4-10	11-21	22-33	34-47	48+	PCT
<1	.2	.0	.0	.0	.0	.0	.2	.0	.0	.0	.0	.0	.0	.0
1-2	.0	2.0	.0	.0	.0	.0	2.0	.0	1.9	.2	.0	.0	.0	2.1
3-4	.0	.6	1.5	.0	.0	.0	2.1	.0	.2	.0	.0	.0	.0	.2
5-6	.0	.1	.4	.0	.0	.0	.5	.0	.0	1.3	.0	.0	.0	1.3
7	.0	.0	.0	.4	.0	.0	.4	.0	.2	.0	.0	.0	.0	.2
8-9	.0	.0	.0	.0	.0	.0	.0	.0	.0	.4	.0	.0	.0	.4
10-11	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
12	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
13-16	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
17-19	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
20-22	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
23-25	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
26-32	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
33-40	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
41-48	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
49-60	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
61-70	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
71-86	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
87+	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
TOT PCT	.2	2.7	1.9	.4	.0	.0	5.2	.0	2.4	1.8	.0	.0	.0	4.3



PERIOD: (OVER-ALL) 1963-1970

SEPTEMBER

AREA 0014 AUSTRALIAN BIGHT SE  
36.05 132.2E

TABLE 18 (CONT)

PCT FREQ OF WIND SPEED (KTS) AND DIRECTION VERSUS SEA HEIGHTS (FT)

HGT	1-3	4-10	11-21	22-33	34-47	48+	PCT	1-3	4-10	11-21	22-33	34-47	48+	PCT
<1	.2	.4	.0	.0	.0	.0	.6	.0	.0	.0	.0	.0	.0	.0
1-2	.0	4.1	.0	.0	.0	.0	4.1	.2	2.8	.6	.0	.0	.0	3.6
3-4	.0	1.8	.9	.0	.0	.0	2.7	.0	1.1	3.0	2.1	.0	.0	6.1
5-6	.0	.1	.6	.1	.0	.0	.9	.0	.3	2.9	1.2	.0	.0	4.4
7	.0	.1	.5	.1	.1	.0	.9	.0	.0	1.0	.7	.1	.0	1.8
8-9	.0	.0	.1	.0	.0	.0	.1	.0	.0	.2	1.0	.4	.0	1.7
10-11	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.2	.6	.0	.8
12	.0	.0	.0	.0	.5	.0	.5	.0	.0	.0	.0	.0	.0	.6
13-16	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.2	.0	.0	.0
17-19	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
20-22	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
23-25	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
26-32	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
33-40	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
41-48	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
49-60	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
61-70	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
71-86	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
87+	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
TOT PCT	.2	6.6	2.1	.3	.7	.0	9.9	.2	4.2	8.1	5.4	1.2	.2	19.4

HGT	1-3	4-10	11-21	22-33	34-47	48+	PCT	1-3	4-10	11-21	22-33	34-47	48+	PCT	TOTAL PCT
<1	.0	.3	.0	.0	.0	.0	.3	.2	.4	.0	.0	.0	.0	.6	
1-2	.0	3.7	1.6	.0	.0	.0	5.3	.0	4.4	.7	.0	.0	.0	5.1	
3-4	.0	3.2	4.1	.8	.0	.0	8.1	.0	2.1	1.4	.0	.0	.0	3.5	
5-6	.0	.3	5.6	1.4	.0	.0	7.2	.0	.0	2.7	.0	.0	.0	2.7	
7	.0	.0	1.1	.3	.1	.0	1.6	.0	.2	1.7	.0	.0	.0	1.9	
8-9	.0	.0	.4	.1	.1	.0	.7	.0	.0	.0	.0	.0	.0	.0	
10-11	.0	.0	.0	.9	.0	.0	.9	.0	.0	.0	.0	.0	.0	.0	
12	.1	.0	.0	.2	.0	.0	.3	.0	.0	.0	.0	.0	.0	.0	
13-16	.0	.0	.0	.2	.0	.0	.2	.0	.0	.0	.0	.0	.0	.0	
17-19	.0	.0	.0	.0	.1	.0	.1	.0	.0	.0	.0	.0	.0	.0	
20-22	.0	.0	.0	.2	.0	.0	.2	.0	.0	.0	.0	.0	.0	.0	
23-25	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
26-32	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
33-40	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
41-48	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
49-60	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
61-70	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
71-86	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
87+	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
TOT PCT	.1	7.5	12.8	4.1	.4	.0	25.0	.2	7.2	6.4	.0	.0	.0	13.9	97.7

WIND SPEED (KTS) VS SEA HEIGHT (FT)

HGT	0-3	4-10	11-21	22-33	34-47	48+	PCT	TOT OBS
<1	2.9	1.9	.0	.0	.0	.0	4.8	
1-2	.2	23.6	5.8	.0	.0	.0	29.6	
3-4	.0	11.6	13.7	3.7	.0	.0	29.0	
5-6	.0	1.2	15.5	2.9	.2	.0	19.7	
7	.0	.8	5.0	2.7	.6	.0	9.1	
8-9	.0	.0	1.2	1.2	.0	.0	2.9	
10-11	.0	.0	.0	1.7	.6	.0	2.3	
12	.2	.0	.0	.2	.6	.0	1.0	
13-16	.0	.0	.0	.4	.6	.0	1.0	
17-19	.0	.0	.0	.0	.2	.0	.2	
20-22	.0	.0	.0	.2	.0	.0	.2	
23-25	.0	.0	.0	.0	.0	.0	.0	
26-32	.0	.0	.0	.0	.0	.2	.2	
33-40	.0	.0	.0	.0	.0	.0	.0	
41-48	.0	.0	.0	.0	.0	.0	.0	
49-60	.0	.0	.0	.0	.0	.0	.0	
61-70	.0	.0	.0	.0	.0	.0	.0	
71-86	.0	.0	.0	.0	.0	.0	.0	
87+	.0	.0	.0	.0	.0	.0	.0	
TOT PCT	3.3	39.1	41.6	13.2	2.7	.2	100.0	517

PERIOD: (OVER-ALL) 1949-1970

TABLE 19

PERCENT FREQUENCY OF WAVE HEIGHT (FT) VS WAVE PERIOD (SECONDS)

PERIOD (SEC)	<1	1-2	3-4	5-6	7	8-9	10-11	12	13-16	17-19	20-22	23-25	26-32	33-40	41-48	49-60	61-70	71-86	87+	TOTAL	MEAN HGT
<6	.3	2.8	4.3	2.9	.9	.4	.3	.1	.3	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	93	4
6-7	.0	.0	2.1	5.3	6.7	3.0	1.1	1.4	.9	.7	.4	.0	.0	.1	.0	.0	.0	.0	.0	165	8
8-9	.0	.0	1.4	5.1	6.8	3.7	3.2	1.2	2.4	.7	.0	.1	.3	.3	.0	.0	.0	.0	.0	191	9
10-11	.0	.0	.9	1.8	2.8	2.5	4.1	2.0	1.8	1.1	.7	.0	.3	.0	.0	.0	.0	.0	.0	136	10
12-13	.0	.0	.1	.4	1.4	1.2	.8	1.4	2.0	.7	.4	.0	.1	.0	.0	.0	.0	.0	.0	65	11
>13	.0	.0	.0	.0	.0	.4	.4	.5	.9	.4	.3	.5	.0	.0	.0	.0	.0	.0	.0	25	15
INDET	.8	1.1	3.0	.5	2.2	1.1	1.2	.4	.7	.0	.1	.0	.0	.0	.0	.0	.0	.0	.0	84	6
TOTAL	8	29	91	122	159	93	83	54	68	26	14	5	5	3	0	0	0	0	0	760	8
PCT	1.1	3.8	12.0	16.1	20.9	12.2	10.9	7.1	8.9	3.4	1.8	.7	.4	.0	.0	.0	.0	.0	.0	100.0	

OCTOBER

PERIOD: (PRIMARY) 1909-1971  
(OVER-ALL) 1859-1971AREA 0014 AUSTRALIAN BIGHT SE  
36.05 132.1E

TABLE 1

## PERCENT FREQUENCY OF WEATHER OCCURRENCE BY WIND DIRECTION

WIND DIR	PRECIPITATION TYPE							OTHER WEATHER PHENOMENA							
	RAIN	RAIN SHWR	DRZL	FRZG PCPN	SNOW	OTHER FRZN PCPN	HAIL	PCPN AT DB TIME	PCPN PAST HOUR	THDR LTNG	FGG WD PCPN	FGG WD PCPN PAST HR	SMOKE HAZE	SPRAY BLWG DUST	NO SIG WEA
N	2.6	2.6	1.3	.0	.0	.0	.0	6.5	1.0	2.1	.9	.0	1.6	.0	87.9
NE	2.1	.7	.5	.0	.0	.0	.0	3.3	1.7	.2	.1	.0	2.1	.0	92.5
E	5.5	2.1	.4	.0	.0	.0	.0	7.9	1.1	1.4	1.4	.0	1.6	.0	86.6
SE	6.4	2.4	4.5	.0	.0	.0	.0	13.0	3.3	1.9	.0	.0	.0	.0	82.7
S	3.7	6.3	1.7	.0	.0	.0	.0	11.4	2.7	.5	1.3	.0	.0	.0	84.2
SW	2.1	5.6	.8	.0	.0	.0	.0	8.5	2.7	1.0	.4	.0	.3	.3	87.0
W	1.9	8.4	1.7	.0	.0	.0	.0	12.0	2.8	.3	1.5	.0	.0	.0	83.3
NW	2.5	4.4	2.4	.0	.0	.0	.0	9.3	2.4	2.3	.0	.0	.3	.0	85.8
VAR	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
CALM	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	5.9	.0	.0	.0	94.1
TOT PCT	2.9	4.6	1.5	.0	.0	.0	.0	8.9	2.2	1.1	.8	.0	.7	.1	86.3
TOT OBS:	1691														

TABLE 2

## PERCENT FREQUENCY OF WEATHER OCCURRENCE BY HOUR

HOUR (GMT)	PRECIPITATION TYPE							OTHER WEATHER PHENOMENA							
	RAIN	RAIN SHWR	DRZL	FRZG PCPN	SNOW	OTHER FRZN PCPN	HAIL	PCPN AT DB TIME	PCPN PAST HOUR	THDR LTNG	FGG WD PCPN	FGG WD PCPN PAST HR	SMOKE HAZE	SPRAY BLWG DUST	NO SIG WEA
0000	3.3	5.3	.8	.0	.0	.0	.2	9.6	1.4	.0	.4	.0	1.0	.2	87.5
0600	3.2	4.6	.7	.0	.0	.0	.0	8.5	2.4	.0	.5	.0	1.0	.0	87.6
1200	1.7	4.5	2.4	.0	.0	.0	.0	8.6	2.4	2.4	1.1	.0	.2	.0	85.5
1800	3.4	3.7	2.6	.0	.0	.0	.0	9.4	2.8	2.6	1.4	.0	.3	.0	83.8
TOT PCT	2.9	4.6	1.6	.0	.0	.0	.1	9.0	2.2	1.2	.8	.0	.6	.1	86.2
TOT OBS:	1737														

TABLE 3

## PERCENTAGE FREQUENCY OF WIND DIRECTION BY SPEED AND BY HOUR

WIND DIR	WIND SPEED (KNOTS)							TOTAL OBS	PCT FREQ	MEAN SPD	HOUR (GMT)							
	0-3	4-10	11-21	22-33	34-47	48+					00	03	06	09	12	15	18	21
N	.4	4.9	4.3	1.7	.2	.0		11.4	13.2	12.7	13.0	11.8	7.5	9.0	12.6	10.3	18.2	
NE	.6	3.8	5.4	.9	*	.0		10.8	12.6	11.6	7.8	10.6	50.0	10.0	10.1	12.2	18.2	
E	.3	2.8	3.8	.8	*	.0		7.7	13.0	7.9	7.3	6.1	.0	8.2	9.7	8.8	9.1	
SE	.1	2.9	3.0	.8	.2	*		7.0	13.8	7.2	7.9	7.4	.0	5.8	4.3	7.7	27.3	
S	.7	4.8	4.3	1.5	.2	*		11.7	13.5	12.4	9.9	12.3	.0	12.4	11.7	11.2	.0	
SW	.5	5.3	7.0	3.1	1.3	.1		17.3	16.5	16.7	15.7	19.1	20.0	18.0	17.6	16.3	9.1	
W	.5	4.9	8.0	5.8	1.6	.1		20.9	18.1	20.3	23.3	21.2	5.0	21.0	18.1	21.2	6.8	
NW	.4	4.3	4.3	1.9	.4	.0		11.4	14.3	10.0	12.3	9.6	17.5	13.2	13.3	11.2	11.4	
VAR	.0	.0	.0	.0	.0	.0		.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
CALM	1.9							1.9	.0	1.2	2.8	1.8	.0	2.5	2.6	1.1	.0	
TOT OBS	135	825	984	405	96	5	2450		14.7		493	324	308	10	472	193	439	11
TOT PCT	5.5	33.7	40.7	16.5	3.9	.2		100.0			100.0	100.0	100.0	100.0	100.0	100.0	100.0	

TABLE 3A

WIND DIR	WIND SPEED (KNOTS)					TOTAL OBS	PCT FREQ	MEAN SPD	HOUR (GMT)			
	0-6	7-16	17-27	28-40	41+				00	03	06	12
N	2.6	5.2	2.8	.7	.1			11.4	13.2	12.8	11.7	10.0
NE	2.1	5.5	3.0	.2	.0			10.8	12.6	10.1	11.5	10.0
E	1.3	4.2	2.1	.2	.0			7.7	13.0	7.6	5.9	8.6
SE	1.1	3.6	1.8	.3	.1			7.0	13.8	7.5	7.2	5.3
S	2.2	5.8	2.7	.8	.1			11.7	13.5	11.4	12.0	12.2
SW	2.3	7.4	5.0	2.2	.4			17.3	16.5	16.3	19.2	17.9
W	2.2	7.9	6.7	3.6	.4			20.9	18.1	21.5	20.8	20.2
NW	2.1	5.3	2.7	1.2	*			11.4	14.3	11.0	9.8	13.2
VAR	.0	.0	.0	.0	.0			.0	.0	.0	.0	.0
CALM	1.9							1.9	.0	1.8	1.7	2.6
TOT OBS	436	1104	658	272	30	2450		14.7		817	518	665
TOT PCT	17.8	45.1	26.9	9.1	1.2			100.0		100.0	100.0	100.0

## OCTOBER

PERIOD: (PRIMARY) 1909-1971  
(OVER-ALL) 1855-1971

AREA 0014 AUSTRALIAN BIGHT SF  
36.05 132.1E

TABLE 4

## PERCENTAGE FREQUENCY OF WIND SPEED BY HOUR (GMT)

HOUR	CALM	1-3	4-10	WIND SPEED (KNOTS)				48+	MEAN	PCT FREQ	TOTAL OBS
				11-21	22-33	34-47					
0000	1.8	3.1	32.9	39.8	18.5	3.7	.2	15.0	100.0	817	
0600	1.7	3.3	34.7	39.2	17.2	3.7	.2	14.8	100.0	518	
1200	2.6	4.5	33.8	39.4	14.7	5.0	.0	14.3	100.0	665	
1800	1.1	3.8	33.6	43.1	14.9	3.1	.4	14.4	100.0	450	
TOT	46	89	825	984	405	96	5	14.7		2450	
PCT	1.9	3.6	33.7	40.2	16.5	3.9	.2	100.0			

TABLE 5

PCT FREQ OF TOTAL CLOUD AMOUNT (EIGHTHS)  
BY WIND DIRECTION

WIND DIR	0-2	3-4	5-7	8 & OBSCD	TOTAL OBS	MEAN CLOUD COVER
N	2.4	1.6	4.1	2.2		5.0
NE	4.0	2.2	3.3	3.0		4.4
E	2.3	1.2	1.9	4.1		5.3
SE	.3	.7	3.5	3.4		6.6
S	1.0	2.2	5.4	3.3		5.8
SW	1.8	4.2	7.6	3.4		5.3
W	4.0	3.8	6.1	5.1		5.0
NW	3.3	1.0	3.7	2.4		4.7
VAR	.0	.0	.0	.0		.0
CALM	.7	.2	.1	.6		4.3
TOT OBS	186	162	335	260	943	5.2
TOT PCT	19.7	17.2	35.5	27.6	100.0	

TABLE 6

PERCENTAGE FREQUENCY OF CEILING HEIGHTS (FT, NH > 4/8)  
AND OCCURRENCE OF NH < 5/8 BY WIND DIRECTION

	000 149	150 299	300 599	600 999	1000 1999	2000 3499	3500 4999	5000 6499	6500 7999	8000+	NH < 5/8 ANY HGT	TOTAL OBS
N	.1	.0	.2	1.3	1.2	.4	.3	.5	.2	.5	5.6	
NE	.1	.0	.0	.3	2.5	1.0	.4	.1	.0	.2	7.9	
E	.0	.0	.2	1.0	1.8	1.2	.6	.0	.1	.0	4.6	
SE	.0	.0	.2	1.3	1.7	1.5	1.0	.1	*	.1	1.8	
S	.0	.0	.2	2.0	3.2	1.5	.6	.1	.1	.0	4.2	
SW	.0	.0	.2	2.7	2.5	1.6	1.3	.7	.2	.0	7.9	
W	.1	.0	.9	.9	3.2	2.1	1.2	.2	.1	.2	10.0	
NW	.0	.0	.2	.8	1.6	.5	.8	.3	.0	.1	6.1	
VAR	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
CALM	.0	.0	.0	.2	.4	.0	.0	.1	.0	.0	1.0	
TOT OBS	3	0	20	99	171	93	58	20	6	10	463	943
TOT PCT	.3	0	2.1	10.5	18.1	9.9	6.2	2.1	.6	1.1	49.1	100.0

TABLE 7

CUMULATIVE PCT FREQ OF SIMULTANEOUS OCCURRENCE  
OF CEILING HEIGHT (NH > 4/8) AND VSBY (NM)

CEILING (FEET)	VSBY (NM)							
	>10	>5	>2	>1	>1/2	>1/4	>50YD	>0
>4500	1.3	1.8	1.8	1.8	1.8	1.8	1.8	1.8
>4000	3.3	4.0	4.0	4.0	4.0	4.0	4.0	4.0
>3500	8.4	10.2	10.3	10.3	10.3	10.3	10.3	10.3
>3000	17.8	20.0	20.1	20.1	20.1	20.1	20.1	20.1
>2500	31.9	37.4	38.0	38.1	38.1	38.1	38.1	38.1
>2000	39.3	47.4	48.5	48.6	48.6	48.6	48.6	48.6
>1500	40.2	49.3	50.5	50.6	50.7	50.7	50.7	50.7
>1000	40.2	49.3	50.5	50.6	50.7	50.7	50.7	50.7
>500	40.2	49.4	50.6	50.7	50.9	51.0	51.0	51.0
>0	40.2	49.4	50.6	50.7	50.9	51.0	51.0	51.0
TOTAL	388	477	488	489	491	492	492	492

TOTAL NUMBER OF OBS: 965

PCT FREQ NH &lt; 5/8: 49.0

TABLE 7A

## PERCENTAGE FREQ OF LOW CLOUDS (EIGHTHS)

0	1	2	3	4	5	6	7	8 OBSCD	TOTAL OBS
10.7	8.7	9.4	11.2	8.3	7.4	10.0	12.1	22.1	1087

PERIOD: (PRIMARY) 1909-1971  
(OVER-ALL) 1855-1971

OCTOBER

AREA 0014 AUSTRALIAN BIGHT SE  
36.05 132.1E

TABLE 8

PERCENT FREQ OF WIND DIRECTION VS OCCURRENCE OR NON-OCCURRENCE OF  
PRECIPITATION WITH VARYING VALUES OF VISIBILITY

VSBY (NM)		N	NE	E	SE	S	SW	W	NW	VAR	CALM	PCT	TOTAL OBS
<1/2	PCP	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
	NO PCP	.0	.0	.0	.0	.1	.0	.1	.0	.0	.0	.0	.1
	TOT %	.0	.0	.0	.0	.1	.0	.1	.0	.0	.0	.0	.1
1/2<1	PCP	.0	.0	.1	.1	.1	*	.1	.0	.0	.0	.0	.5
	NO PCP	.1	*	.1	.0	.1	.1	.3	.0	.0	.0	.0	.7
	TOT %	.1	*	.2	.1	.2	.1	.4	.0	.0	.0	.0	1.1
1<2	PCP	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
	NO PCP	.2	.1	*	.0	.0	.0	.1	.0	.0	.0	.0	.4
	TOT %	.2	.1	*	.0	.0	.0	.1	.0	.0	.0	.0	.4
2<5	PCP	.2	.1	.0	.1	.1	.0	.1	.1	.0	.0	.0	.7
	NO PCP	.1	.1	.0	.0	.0	.0	.1	.1	.0	.1	.4	.4
	TOT %	.2	.1	.0	.1	.1	.0	.2	.3	.0	.1	.4	1.0
5<10	PCP	.3	.1	.4	.3	.9	1.2	1.6	.8	.0	.0	.0	5.6
	NO PCP	4.1	4.2	2.4	1.1	4.1	6.5	7.5	4.8	.0	.2	24.8	
	TOT %	4.5	4.3	2.8	1.3	5.0	7.7	9.1	5.6	.0	.1	40.3	
10+	PCP	.2	.2	.2	.4	.3	.3	.5	.2	.0	.0	.0	2.2
	NO PCP	6.1	7.2	5.1	4.4	6.6	9.7	8.9	5.7	.0	.9	54.8	
	TOT %	6.3	7.4	5.3	4.7	6.9	10.0	9.4	5.9	.0	.9	57.0	
TOT OBS													
TOT PCT													
		11.3	12.0	8.4	6.3	12.2	17.8	19.3	11.7	.0	1.0	100.0	1691

TABLE 9

PERCENT FREQ OF WIND DIRECTION VS WIND SPEED  
WITH VARYING VALUES OF VISIBILITY

VSBY (NM)	SPD KTS	N	NE	E	SE	S	SW	W	NW	VAR	CALM	PCT	TOTAL OBS
<1/2	0-3	.0	.0	.0	.0	.1	.0	.0	.0	.0	.0	.0	.1
	4-10	.0	.0	.0	.0	.0	.0	.1	.0	.0	.0	.0	.1
	11-21	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
	22+	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
	TOT %	.0	.0	.0	.0	.1	.0	.1	.0	.0	.0	.0	.1
1/2<1	0-3	*	*	.1	.0	.0	.0	.0	.0	.0	.0	.0	.2
	4-10	.1	.0	.0	.0	.1	.0	.0	.0	.0	.0	.0	.1
	11-21	.0	.0	.1	.0	.1	.0	.1	.0	.0	.0	.0	.2
	22+	.0	.0	.0	.1	.1	.1	.4	.0	.0	.0	.0	.5
	TOT %	.1	*	.2	.1	.2	.1	.4	.0	.0	.0	.0	1.0
1<2	0-3	.0	.1	.0	.0	.0	.0	.0	.0	.0	.0	.0	.1
	4-10	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
	11-21	.1	.1	*	.0	.0	.0	.0	.0	.0	.0	.0	.2
	22+	.1	.0	.0	.0	.0	.0	.1	.0	.0	.0	.0	.1
	TOT %	.2	.1	*	.0	.0	.0	.1	.0	.0	.0	.0	.4
2<5	0-3	.0	.0	.0	.0	.0	.0	.0	.0	.0	.1	.1	.1
	4-10	.1	.0	.0	.0	.1	.0	.1	.1	.0	.0	.3	.3
	11-21	.1	.1	.0	.1	.0	.0	*	.1	.0	.0	.3	.3
	22+	.1	.1	.1	.0	.0	.0	.1	.1	.0	.0	.3	.3
	TOT %	.2	.1	.1	.1	.1	.0	.2	.2	.0	.1	1.0	
5<10	0-3	*	.2	.1	.1	.3	.3	.1	.2	.0	.2	1.5	
	4-10	1.1	1.5	1.1	.9	1.7	2.0	1.9	1.5	.0	.0	11.6	
	11-21	1.9	1.9	1.2	.3	2.0	2.8	3.3	2.0	.0	.0	15.4	
	22+	1.1	.4	.5	.1	.7	2.0	3.1	1.5	.0	.0	9.4	
	TOT %	4.2	4.0	2.8	1.3	4.8	7.1	8.4	5.2	.0	.2	38.0	
10+	0-3	.2	.2	.2	.0	.2	.2	.3	.2	.0	1.1	2.7	
	4-10	3.3	2.6	1.8	2.1	3.2	3.3	3.0	2.9	.0	.0	22.3	
	11-21	2.4	4.3	2.9	2.3	2.9	5.0	5.1	2.5	.0	.0	27.4	
	22+	.5	.5	.4	.6	.9	2.0	1.8	.3	.0	.0	7.0	
	TOT %	6.5	7.6	5.4	5.0	7.2	10.6	10.2	5.9	.0	1.1	59.5	
TOT OBS													
TOT PCT													
		11.2	11.8	8.5	6.4	12.3	17.8	19.4	11.3	.0	1.3	100.0	1822

## OCTOBER

PERIOD: (PRIMARY) 1909-1971  
(OVER-ALL) 1855-1971

AREA 0014 AUSTRALIAN BIGHT SE  
36.05 132.1E

TABLE 10

PERCENT FREQUENCY OF CEILING HEIGHTS (FEET, NH > 4/8) AND  
OCCURRENCE OF NH < 5/8 BY HOUR

HR	000	150	300	600	1000	2000	3500	5000	6500	8000+	TOTAL	NH < 5/8 ANY HGT	TOTAL OBS
(GMT)	149	299	599	999	1999	3499	4999	6499	7999				
00003	.4	.0	2.2	10.1	17.6	11.5	6.5	2.5	.7	1.4	52.9	47.1	278
06009	.0	.0	1.4	9.5	18.3	7.4	4.9	2.5	.7	1.1	45.8	54.2	284
12015	.4	.0	2.6	10.7	13.7	7.3	6.4	1.7	.0	.9	43.6	56.4	234
18021	.5	.0	1.8	9.5	18.6	11.3	5.9	1.8	.9	.9	51.1	48.9	221
TOT	3	0	20	101	174	95	60	22	6	11	492	525	1017
PCT	.3	.0	2.0	9.9	17.1	9.3	5.9	2.2	.6	1.1	48.4	51.6	100.0

TABLE 11

PERCENT FREQUENCY VSBY (NM) BY HOUR

HR	<1/2	1/2<1	1<2	2<5	5<10	10+	TOTAL
(GMT)							OBS
00003	.4	.9	.5	.9	42.3	55.0	558
06009	.0	.7	.2	1.6	30.6	66.8	431
12015	.0	1.4	.2	.6	43.7	54.1	503
18021	.0	1.1	.5	.8	33.8	63.8	376
TOT	2	19	7	18	715	1107	1868
PCT	.1	1.0	.4	1.0	38.3	59.3	100.0

TABLE 12

CUMULATIVE PCT FREQ OF RANGES OF VSBY (NM) AND/OR  
CEILING HGT (FEET, NH > 4/8) BY HOUR

HR	<150 <50YD	<600 <1	<1000 <5	1000+ AND 5+	NH < 5/8 AND 5+	TOTAL OBS
(GMT)						
00003	.4	3.0	14.2	41.6	44.2	267
06009	.0	1.5	12.5	35.7	51.8	272
12015	.5	3.3	16.3	31.6	52.1	215
18021	.5	2.4	13.3	40.3	46.4	211
TOT	3	24	135	361	469	965
PCT	.3	2.5	14.0	37.4	48.6	100.0

TABLE 13

PERCENT FREQUENCY OF RELATIVE HUMIDITY BY TEMP

TEMP F	0-29	30-39	40-49	50-59	60-69	70-79	80-89	90-100	TOTAL OBS	PCT FREQ
65/69	.0	.0	.0	.2	.2	.5	.1	.0	11	.9
60/64	.0	.0	.0	.5	1.5	5.8	6.9	1.2	197	15.9
55/59	.0	.0	.1	1.5	8.0	15.3	20.9	9.3	681	55.0
50/54	.0	.0	.0	1.2	7.8	7.3	7.9	3.1	340	27.4
45/49	.0	.0	.0	.1	.3	.0	.2	.2	10	.8
TOTAL	0	0	1	42	220	358	447	171	1239	100.0
PCT	.0	.0	.1	3.4	17.8	28.9	36.1	13.8		

TABLE 14

PERCENT FREQUENCY OF WIND DIRECTION BY TEMP

N	NE	E	SE	S	SW	W	NW	VAR	CALM
.3	.2	.0	.0	.1	*	.1	.1	.0	.0
3.0	2.6	1.4	.6	.6	1.8	3.5	2.1	.0	.2
6.8	8.1	4.3	2.7	6.0	8.3	10.3	8.0	.0	.5
.8	1.5	2.1	3.1	5.2	7.8	4.8	1.7	.0	.6
.1	.0	.0	.1	.2	.2	.2	.0	.0	.0
11.0	12.4	7.8	6.5	12.1	18.2	18.9	11.8	.0	1.3

TABLE 15

MEANS, EXTREMES AND PERCENTILES OF TEMP (DEG F) BY HOUR

HR	MAX	99%	95%	50%	5%	1%	MIN	MEAN	TOTAL OBS
(GMT)									
00003	68	65	63	57	51	49	48	56.9	799
06009	68	66	63	57	52	49	46	57.7	511
12015	72	64	61	56	51	49	46	55.8	669
18021	72	63	60	55	50	48	45	55.0	458
TOT	72	65	62	56	51	49	45	56.4	2437

TABLE 16

PERCENT FREQUENCY OF RELATIVE HUMIDITY BY HOUR

HR	0-29	30-59	60-69	70-79	80-89	90-100	MEAN	TOTAL OBS
(GMT)								
00003	.0	4.2	22.5	29.1	34.2	9.9	77	354
06009	.0	5.3	20.2	32.1	33.0	9.3	77	321
12015	.0	1.6	15.2	29.1	35.4	18.7	80	316
18021	.0	2.2	12.5	24.7	42.4	18.1	81	271
TOT	0	43	227	365	454	173	79	1262



## OCTOBER

PERIOD: (PRIMARY) 1909-1971  
(OVER-ALL) 1855-1971

TABLE 17

AREA 0014 AUSTRALIAN BIGHT SE  
36.05 132.1E

PCT FREQ OF AIR TEMPERATURE (DEG F) AND THE OCCURRENCE OF FOG (WITHOUT PRECIPITATION)  
VS AIR-SEA TEMPERATURE DIFFERENCE (DEG F)

AIR-SEA TMP DIF	45 48	49 52	53 56	57 60	61 64	65 68	69 72	TOT	W FOG	WD FOG
11/13	.0	.0	.0	.0	.0	.1	.0	1	.0	.1
9/10	.0	.0	.0	.0	.0	.1	.0	2	.0	.1
7/8	.0	.0	.0	.0	.5	.3	.1	13	.0	.9
6	.0	.0	.0	.0	1.0	.3	.0	20	.0	1.3
5	.0	.0	.3	.4	1.5	.1	.0	33	.0	2.2
4	.0	.0	.2	1.1	2.2	.0	.0	53	.0	3.6
3	.0	.0	.3	2.4	2.6	.0	.0	78	.0	5.2
2	.0	.0	1.3	5.2	1.7	.0	.0	122	.0	8.2
1	.0	.2	3.0	7.5	.8	.0	.0	172	.1	11.5
0	.0	.7	7.2	8.0	.3	.0	.0	243	.3	16.0
-1	.0	.5	9.7	4.8	.2	.0	.0	226	.3	14.9
-2	.0	1.5	8.8	2.4	.2	.0	.0	191	.1	12.8
-3	.0	1.8	6.6	.5	.1	.0	.0	133	.1	8.9
-4	.0	2.2	3.1	.5	.0	.0	.0	86	.0	5.8
-5	.0	1.9	1.9	.1	.0	.0	.0	60	.1	4.0
-6	.1	.9	.7	.0	.0	.0	.0	25	.0	1.7
-7/-8	.2	.9	.5	.0	.0	.0	.0	25	.0	1.7
-9/-10	.1	.2	.0	.0	.0	.0	.0	4	.0	.3
-11/-13	.0	.1	.0	.0	.0	.0	.0	1	.0	.1
TOTAL	5	16	650	489	13	2		1488	13	1475
PCT	.3	11.0	43.7	32.9	11.2	.9	.1	100.0	.9	99.1

PERIOD: (OVER-ALL) 1963-1971

TABLE 18

PCT FREQ OF WIND SPEED (KTS) AND DIRECTION VERSUS SEA HEIGHTS (FT)

HGT	1-3	4-10	11-21	22-33	34-47	48+	PCT	NE	1-3	4-10	11-21	22-33	34-47	48+	PCT
<1	.5	.8	.0	.0	.0	.0	1.3	.2	.6	.0	.0	.0	.0	.0	.8
1-2	.0	3.3	.4	.0	.0	.0	3.7	.2	3.2	1.3	.0	.0	.0	.0	4.7
3-4	.0	1.9	1.3	.0	.0	.0	3.2	.0	1.8	2.0	.2	.0	.0	.0	3.9
5-6	.0	.3	.8	.2	.0	.0	1.3	.0	.2	1.9	.2	.0	.0	.0	2.3
7	.0	.0	.7	.2	.0	.0	.9	.0	.0	1.6	.0	.0	.0	.0	1.6
8-9	.0	.0	.5	.3	.0	.0	.8	.0	.0	.2	.0	.0	.0	.0	.2
10-11	.0	.0	.0	.3	.0	.0	.3	.0	.0	.4	.2	.0	.0	.0	.6
12	.0	.0	.0	.4	.0	.0	.4	.0	.0	.0	.2	.0	.0	.0	.2
13-16	.0	.0	.0	.2	.0	.0	.2	.0	.0	.0	.0	.2	.0	.0	.2
17-19	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
20-22	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
23-25	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
26-32	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
33-40	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
41-48	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
49-60	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
61-70	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
71-86	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
87+	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
TOT PCT	.5	6.3	3.7	1.5	.0	.0	12.1	.4	5.7	7.4	.9	.2	.0	.0	14.6

HGT	1-3	4-10	11-21	22-33	34-47	48+	PCT	SE	1-3	4-10	11-21	22-33	34-47	48+	PCT
<1	.2	.8	.2	.0	.0	.0	1.2	.0	.2	.0	.0	.0	.0	.0	.2
1-2	.2	2.0	.5	.0	.0	.0	2.7	.0	2.5	.9	.0	.0	.0	.0	3.4
3-4	.0	1.2	1.6	.0	.0	.0	2.7	.0	1.0	1.5	.0	.0	.0	.0	2.5
5-6	.0	.0	1.6	.1	.0	.0	1.8	.0	.4	1.5	.6	.0	.0	.0	2.5
7	.0	.0	.9	.0	.0	.0	.9	.0	.0	.0	.0	.0	.0	.0	.6
8-9	.0	.0	.0	.2	.0	.0	.2	.0	.0	.0	.0	.0	.0	.0	.0
10-11	.0	.0	.0	.1	.0	.0	.1	.0	.0	.0	.0	.0	.0	.0	.0
12	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
13-16	.0	.0	.0	.0	.0	.0	.0	.0	.0	.2	.0	.0	.0	.0	.2
17-19	.0	.0	.0	.2	.0	.0	.2	.0	.0	.0	.0	.0	.0	.0	.0
20-22	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
23-25	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
26-32	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
33-40	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
41-48	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
49-60	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
61-70	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
71-86	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
87+	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
TOT PCT	.4	4.0	4.8	.7	.0	.0	9.9	.0	4.1	4.2	1.1	.0	.0	.0	9.4

PERIOD: (OVER-ALL) 1963-1971

OCTOBER

AREA 0014 AUSTRALIAN BIGHT SE  
36.05 132.1E

TABLE 18 (CONT)

PCT FREQ OF WIND SPEED (KTS) AND DIRECTION VERSUS SEA HEIGHTS (FT)

HGT	1-3	4-10	11-21	22-33	34-47	48+	PCT	1-3	4-10	11-21	22-33	34-47	48+	PCT
<1	.2	.5	.0	.0	.0	.0	.7	.0	.3	.0	.0	.0	.0	.3
1-2	.2	3.6	.0	.0	.0	.0	3.8	.0	2.4	.8	.0	.0	.0	3.2
3-4	.0	2.5	2.2	.0	.0	.0	4.6	.0	1.9	2.5	.0	.0	.0	4.4
5-6	.0	.5	1.8	.0	.0	.0	2.2	.0	.7	1.4	.0	.0	.0	2.5
7	.0	.2	1.9	.2	.0	.0	2.3	.0	.0	.5	.6	.0	.0	1.0
8-9	.0	.0	.3	.2	.0	.0	.5	.0	.0	.2	.0	.0	.0	.2
10-11	.0	.0	.0	.2	.0	.0	.2	.0	.0	.2	.2	.0	.0	.6
12	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
13-16	.0	.0	.0	.2	.0	.0	.2	.0	.0	.0	.0	.0	.0	.0
17-19	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
20-22	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
23-25	.0	.0	.0	.0	.0	.0	.0	.0	.0	.2	.0	.0	.0	.2
26-32	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
33-40	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
41-48	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
49-60	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
61-70	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
71-86	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
87+	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
TOT PCT	.4	7.2	6.2	.7	.0	.0	14.5	.0	5.2	5.8	1.1	.9	.0	13.0

HGT	1-3	4-10	11-21	22-33	34-47	48+	PCT	1-3	4-10	11-21	22-33	34-47	48+	PCT	TOTAL PCT
<1	.2	.9	.1	.0	.0	.0	1.2	.0	.0	.0	.0	.0	.0	.0	.0
1-2	.0	1.6	.7	.0	.0	.0	2.3	.2	3.3	.4	.0	.0	.0	3.9	.0
3-4	.0	2.0	2.0	.0	.0	.0	3.9	.0	.4	.9	.0	.0	.0	1.3	.0
5-6	.0	.5	1.8	1.0	.0	.0	3.3	.0	.2	1.1	.3	.0	.0	1.6	.0
7	.0	.0	.7	.9	.0	.0	1.6	.0	.0	.2	.2	.0	.0	.4	.0
8-9	.0	.0	.4	.5	.0	.0	.9	.0	.0	.0	.0	.0	.0	.5	.0
10-11	.0	.0	.6	.2	.0	.0	1.3	.0	.0	.0	.2	.2	.0	.4	.0
12	.0	.0	.0	.1	.0	.0	.1	.0	.0	.0	.6	.0	.0	.6	.0
13-16	.0	.0	.1	.1	.0	.0	.3	.0	.0	.0	.0	.2	.0	.2	.0
17-19	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
20-22	.0	.0	.1	.0	.0	.0	.1	.0	.0	.0	.0	.0	.0	.0	.0
23-25	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
26-32	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
33-40	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
41-48	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
49-60	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
61-70	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
71-86	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
87+	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
TOT PCT	.2	4.9	6.6	3.2	.2	.0	15.1	.2	4.0	2.6	1.8	.4	.0	8.9	97.4

WIND SPEED (KTS) VS SEA HEIGHT (FT)

HGT	0-3	4-10	11-21	22-33	34-47	48+	PCT	TOT DBS
<1	4.2	4.2	.4	.0	.0	.0	8.8	
1-2	1.1	21.9	4.9	.0	.0	.0	27.9	
3-4	.2	12.4	13.7	.2	.0	.0	26.5	
5-6	.0	2.7	11.7	2.4	.4	.0	17.2	
7	.2	.2	6.4	2.6	.0	.0	9.3	
8-9	.0	.0	1.6	1.6	.0	.0	3.3	
10-11	.0	.0	1.1	1.8	.5	.0	3.5	
12	.0	.0	.0	1.3	.0	.0	1.3	
13-16	.0	.0	.4	.7	.0	.0	1.8	
17-19	.0	.0	.0	.2	.0	.0	.2	
20-22	.0	.0	.2	.0	.0	.0	.2	
23-25	.0	.0	.2	.0	.0	.0	.2	
26-32	.0	.0	.0	.0	.0	.0	.0	
33-40	.0	.0	.0	.0	.0	.0	.0	
41-48	.0	.0	.0	.0	.0	.0	.0	
49-60	.0	.0	.0	.0	.0	.0	.0	
61-70	.0	.0	.0	.0	.0	.0	.0	
71-86	.0	.0	.0	.0	.0	.0	.0	
87+	.0	.0	.0	.0	.0	.0	.0	
TOT PCT	5.7	41.4	40.5	10.8	1.6	.0	100.0	548

PERIOD: (OVER-ALL) 1949-1971

TABLE 19

PERCENT FREQUENCY OF WAVE HEIGHT (FT) VS WAVE PERIOD (SECONDS)

PERIOD (SEC)	<1	1-2	3-4	5-6	7	8-9	10-11	12	13-16	17-19	20-22	23-25	26-32	33-40	41-48	49-60	61-70	71-86	87+	TOTAL	MEAN HGT	
<6	1.1	4.8	5.9	3.8	2.0	.2	.4	.1	.1	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	154	4
6-7	.0	.6	3.1	7.1	7.2	3.9	3.8	.6	2.2	.2	.0	.1	.0	.0	.0	.0	.0	.0	.0	.0	241	7
8-9	.0	.2	1.2	3.3	6.3	3.3	2.2	1.0	2.8	.1	.6	.1	.0	.0	.0	.0	.0	.0	.0	.0	177	8
10-11	.0	.0	.7	1.3	3.1	2.3	2.5	1.2	1.9	.1	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	110	9
12-13	.0	.0	.4	.4	.6	1.9	.6	1.1	.7	.4	.1	.0	.0	.0	.0	.0	.0	.0	.0	.0	51	10
>13	.0	.0	.0	1.0	.4	.2	.4	.5	.7	.1	.1	.0	.2	.0	.0	.0	.0	.0	.0	.0	30	11
INDPT	.6	.7	1.1	1.0	1.2	1.1	1.3	.5	1.1	.1	.1	.0	.0	.0	.0	.0	.0	.0	.0	.0	73	7
TOTAL	14	53	103	149	174	109	93	41	79	9	8	2	2	0	0	0	0	0	0	0	835	7
PCT	1.7	6.3	12.3	17.8	20.8	13.0	11.1	4.9	9.4	1.1	1.0	.2	.2	.0	.0	.0	.0	.0	.0	.0	100.0	

NOVEMBER

PERIOD: (PRIMARY) 1910-1969  
(OVER-ALL) 1854-1969AREA 0014 AUSTRALIAN BIGHT SE  
36.25 132.1E

TABLE 1

## PERCENT FREQUENCY OF WEATHER OCCURRENCE BY WIND DIRECTION

PRECIPITATION TYPE										OTHER WEATHER PHENOMENA						
WIND DIR	RAIN	RAIN SHHR	DRZL	FRZG PCPN	SNOW	OTHER FRZN PCPN	HAIL	PCPN AT DB TIME	PCPN PAST HOUR	THDR LTNG	FGG WD PCPN	FGG WD PCPN PAST HR	SMOKE HAZE	SPRAY BLWG DUST	NO SIG WEA	
N	3.4	.8	1.0	.0	.0	.0	.0	5.1	1.8	4.3	4.7	.0	1.6	.0	82.8	
NE	1.7	.7	.3	.0	.0	.0	.0	2.8	1.6	.3	.7	.0	.7	.0	94.3	
E	1.3	.0	2.7	.0	.0	.0	.0	4.0	.0	.7	.3	.0	.0	.0	95.0	
SE	.7	.7	2.0	.0	.0	.0	.0	3.3	.0	1.5	.7	.0	.7	.0	93.9	
S	1.7	2.7	1.2	.0	.0	.0	.0	5.7	.5	1.4	.2	.0	.0	.0	92.2	
SW	3.4	4.6	1.2	.0	.0	.0	.0	9.2	1.7	.8	.6	.0	.1	.0	88.3	
W	.9	6.9	1.8	.0	.0	.0	.4	10.1	1.7	.2	.9	.0	.6	.0	86.5	
NW	.7	2.0	.7	.0	.0	.0	.0	3.5	.5	1.5	1.0	1.0	1.0	.0	91.6	
VAR	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
CALM	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	20.0	.0	.0	.0	80.0	
TOT PCT	1.8	2.9	1.4	.0	.0	.0	.1	6.2	1.1	1.1	1.1	.1	.5	.0	90.1	
TOT OBS:	1406															

TABLE 2

## PERCENT FREQUENCY OF WEATHER OCCURRENCE BY HOUR

HOUR (GMT)	PRECIPITATION TYPE							OTHER WEATHER PHENOMENA							
	RAIN	RAIN SHWR	DRZL	FRZG PCPN	SNOW	OTHER FRZN PCPN	HAIL	PCPN AT OB TIME	PCPN PAST HOUR	THDR LTNG	FGG WD PCPN	FGG WD PCPN PAST HR	SMOKE HAZE	SPRAY BLWG BLWG	DUST DUST SNOW
00603	1.6	3.5	1.3	.0	.0	.0	.2	6.7	.7	.2	1.1	.0	.9	.0	90.5
06609	1.5	2.1	.6	.0	.0	.0	.0	4.1	.6	.0	.9	.0	.6	.0	93.8
12615	1.3	2.4	1.3	.0	.0	.0	.0	5.1	1.6	1.6	1.9	.0	.3	.0	89.8
18621	3.1	3.1	2.4	.0	.0	.0	.0	8.7	1.4	3.1	.3	.3	.0	.0	86.8
TOT PCT	1.8	2.8	1.4	.0	.0	.0	.1	6.1	1.0	1.1	1.1	.1	.5	.0	90.4
TOT OBS:	1451														

TABLE 3

## PERCENTAGE FREQUENCY OF WIND DIRECTION BY SPEED AND BY HOUR

WIND DIR	WIND SPEED (KNOTS)							TOTAL OBS	PCT FREQ	MEAN SPD	HOUR (GMT)							
	0-3	4-10	11-21	22-33	34-47	48+					00	03	06	09	12	15	18	21
N	.7	3.6	3.1	.5	*	.0		7.9	11.2		9.1	8.3	8.0	.0	6.3	7.6	8.0	5.6
NE	.5	3.7	4.0	.7	*	.0		9.0	11.9		10.0	9.3	8.9	16.7	8.6	6.8	8.6	11.1
E	.7	4.5	5.4	.6	.1	.0		11.2	11.8		9.9	10.2	11.4	.0	11.6	12.4	12.3	16.7
SE	.6	4.9	4.9	.6	.1	.0		11.0	11.7		10.0	11.4	12.0	16.7	10.9	12.4	10.4	11.1
S	.9	6.3	6.4	2.0	.2	.0		15.8	12.7		16.4	13.4	15.9	16.7	16.5	17.2	15.5	22.2
SW	.4	7.3	7.9	3.4	.6	.0		19.6	14.6		17.4	18.7	17.8	25.0	20.2	26.6	21.5	5.4
W	.7	5.3	7.3	3.6	.7	.0		17.6	15.6		19.1	17.0	17.4	25.0	19.0	11.5	17.6	27.8
NW	.6	2.9	2.5	.7	*	.0		6.6	12.2		6.9	9.7	7.1	.0	5.6	4.4	5.6	.0
VAR	.0	.0	.0	.0	.0	.0		.0	.0		.0	.0	.0	.0	.0	.0	.0	.0
CALM	1.3							1.3	.0		1.3	2.1	1.4	.0	1.3	1.2	.5	.0
TOT OBS	137	828	895	258	39	0	2157		13.0		463	290	437	6	394	170	388	9
TOT PCT	6.4	38.4	41.5	12.0	1.8	.0		100.0			100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0

TABLE 3A

WIND DIR	WIND SPEED (KNOTS)					TOTAL OBS	PCT FREQ	MEAN SPD	HOUR (GMT)			
	0-6	7-16	17-27	28-40	41+				00	06	12	18
N	2.0	4.3	1.5	.2	.0		7.9	11.2	8.8	7.9	6.7	7.9
NE	2.0	4.8	2.1	.1	.0		9.0	11.9	9.8	9.0	8.1	8.7
E	2.5	6.0	2.5	.1	.0		11.2	11.8	10.0	11.3	11.8	12.4
SE	2.2	6.5	2.1	.2	*		11.0	11.7	10.6	12.0	11.3	10.4
S	3.7	7.8	3.6	.7	*		15.8	12.7	15.2	15.9	16.7	15.6
SW	2.8	9.9	4.9	2.0	*		19.6	14.6	17.9	17.9	22.1	21.2
W	2.4	8.1	4.7	2.3	.1		17.6	15.6	18.3	17.6	16.7	17.8
NW	1.5	3.4	1.3	.4	.0		6.6	12.2	7.9	7.0	5.3	5.5
VAR	.0	.0	.0	.0	.0		.0	.0	.0	.0	.0	.0
CALM	1.3						1.3	.0	1.6	1.4	1.2	.5
TOT OBS	436	1096	491	130	4	2157		13.0	753	443	564	397
TOT PCT	20.2	50.8	22.8	6.0	.2		100.0		100.0	100.0	100.0	100.0

PERIOD: (PRIMARY) 1910-1969  
(OVER-ALL) 1854-1969

# NOVEMBER

AREA 0014 AUSTRALIAN BIGHT SE  
36.25 132.1E

TABLE 4

PERCENTAGE FREQUENCY OF WIND SPEED BY HOUR (GMT)

HOURLY	CALM	1-3	4-10	WIND SPEED (KNOTS)			48+	MEAN	PCT FREQ	TOTAL OBS
				11-21	22-33	34-47				
00003	1.6	6.2	33.9	43.4	13.1	1.7	.0	13.1	100.0	753
06009	1.4	4.3	39.1	42.2	11.3	1.8	.0	13.1	100.0	443
12015	1.2	4.8	41.3	37.4	13.7	1.6	.0	12.9	100.0	564
18021	.5	4.3	42.1	42.8	8.1	2.3	.0	12.7	100.0	397
TOT	27	110	828	895	258	39	0	13.0		2157
PCT	1.3	5.1	38.4	41.5	12.0	1.8	.0	100.0		

TABLE 5

PCT FREQ OF TOTAL CLOUD AMOUNT (EIGHTHS)  
BY WIND DIRECTION

WIND DIR	0-2	3-4	5-7	8 & 9	TOTAL CLOUD OBS	MEAN CLOUD COVER
N	4.2	.6	1.9	1.4		3.4
NE	4.4	1.2	3.6	1.1		3.6
E	2.9	1.5	4.1	2.6		4.8
SE	1.8	1.9	3.9	2.2		5.2
S	3.5	3.2	6.6	3.1		4.9
SW	3.2	3.6	5.5	4.0		5.0
W	4.6	4.9	7.8	2.8		4.5
NW	2.3	1.1	3.1	.6		4.2
VAR	.0	.0	.0	.0		.0
CALM	.5	.0	.2	.1		3.2
TOT OBS	235	154	315	154	858	4.6
TOT PCT	27.4	17.9	36.7	17.9	100.0	

TABLE 6

PERCENTAGE FREQUENCY OF CEILING HEIGHTS (FT, NH >4/8)  
AND OCCURRENCE OF NH <5/8 BY WIND DIRECTION

	000	150	300	600	1000	2000	3500	5000	6500	8000+	NH <5/8 ANY HGT	TOTAL OBS
	149	299	599	999	1999	3499	4999	6499	7999			
N	.0	.0	.3	.1	.9	.3	.2	.2	.0	.2	5.8	
NE	.0	.0	.3	.3	.8	.7	.6	.1	.0	.0	7.4	
E	.0	.0	.0	.8	2.2	.7	.6	.1	.3	.1	6.2	
SE	.0	.0	.0	.6	2.0	.8	1.0	.2	.2	.2	4.8	
S	.0	.0	.2	.8	3.3	2.1	.8	.5	.1	.0	8.7	
SW	.0	.0	.2	2.0	2.2	1.3	1.3	.1	.0	.1	9.1	
W	.2	.0	.1	1.1	3.5	1.2	1.9	.3	.0	.0	11.8	
NW	.0	.0	.0	.5	1.3	.2	.8	.1	.0	.2	4.1	
VAR	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
CALM	.0	.0	.0	.0	.1	.0	.0	.0	.2	.0	.5	
TOT OBS	2	0	9	53	139	63	62	15	8	6	501	858
TOT PCT	.2	.0	1.0	6.2	16.2	7.3	7.2	1.7	.9	.7	58.4	100.0

TABLE 7

CUMULATIVE PCT FREQ OF SIMULTANEOUS OCCURRENCE  
OF CEILING HEIGHT (NH >4/8) AND VSBY (NM)

CEILING (FEET)	VSBY (NM)							
	>10	>5	>2	>1	>1/2	>1/4	>50YD	>0
>6500	1.4	1.6	1.6	1.6	1.6	1.6	1.6	1.6
>4000	2.5	3.1	3.3	3.4	3.4	3.4	3.4	3.4
>3500	7.8	10.1	10.5	10.6	10.6	10.6	10.6	10.6
>2000	14.9	17.8	18.1	18.2	18.2	18.2	18.2	18.2
>1000	28.1	33.8	34.2	34.3	34.3	34.3	34.3	34.3
>600	32.2	39.9	40.4	40.5	40.5	40.5	40.5	40.5
>300	32.5	40.8	41.4	41.5	41.5	41.5	41.5	41.5
>150	32.5	40.8	41.4	41.5	41.5	41.5	41.5	41.5
>0	32.6	41.0	41.6	41.7	41.7	41.7	41.7	41.7
TOTAL	286	360	365	366	366	366	366	366

TOTAL NUMBER OF OBS: 877

PCT FREQ NH <5/8: 58.3

TABLE 7A

PERCENTAGE FREQ OF LOW CLOUDS (EIGHTHS)

	0	1	2	3	4	5	6	7	8	9	TOTAL OBS
	14.2	10.9	12.0	12.3	8.1	7.8	9.1	11.6	14.0	.0	958

PERIOD: (PRIMARY) 1910-1969  
(OVER-ALL) 1854-1969

NOVEMBER

AREA 0014 AUSTRALIAN BIGHT SE  
36.2S 132.1E

TABLE 8

PERCENT FREQ OF WIND DIRECTION VS OCCURRENCE OR NON-OCCURRENCE OF  
PRECIPITATION WITH VARYING VALUES OF VISIBILITY

VISBY (NM)		N	NE	E	SE	S	SW	W	NW	VAR	CALM	PCT	TOTAL OBS
<1/2	PCP	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
	NO PCP	.1	.0	*	*	.0	.1	.0	.0	.0	.1	.3	
	TOT %	.1	.0	*	*	.0	.1	.0	.0	.0	.1	.3	
1/2<1	PCP	.0	.0	.0	*	*	.0	.1	.0	.0	.0	.2	
	NO PCP	.3	.1	.0	.1	.1	*	.1	*	.0	.0	.6	
	TOT %	.3	.1	.0	.1	.1	*	.2	*	.0	.0	.9	
1<2	PCP	.1	.0	.0	.0	.0	.0	.0	*	.0	.0	.1	
	NO PCP	.0	.0	.0	*	*	.0	.0	.0	.0	.0	.1	
	TOT %	.1	.0	.0	*	*	.0	.0	*	.0	.0	.1	
2<5	PCP	.0	.0	.0	.1	.1	.1	.0	.0	.0	.0	.3	
	NO PCP	.1	*	.0	.1	.1	.1	.1	.0	.0	.0	.4	
	TOT %	.1	*	.0	.1	.2	.2	.1	.0	.0	.0	.6	
5<10	PCP	.4	.3	.4	.2	.2	1.4	1.4	.2	.0	.0	4.5	
	NO PCP	3.0	3.6	3.1	4.6	3.4	5.9	5.4	2.6	.0	.1	31.7	
	TOT %	3.3	3.9	3.5	4.9	3.6	7.3	6.8	2.8	.0	.1	36.2	
10+	PCP	.1	.0	.0	.0	.4	.2	.4	*	.0	.0	1.1	
	NO PCP	5.2	6.3	7.0	5.5	10.0	10.0	12.0	4.3	.0	.6	60.9	
	TOT %	5.2	6.3	7.0	5.5	10.4	10.2	12.4	4.3	.0	.6	61.9	
TOT OBS													1405
TOT PCT		9.0	10.3	10.5	10.7	14.4	17.7	19.5	7.2	.0	.7	100.0	

TABLE 9

PERCENT FREQ OF WIND DIRECTION VS WIND SPEED  
WITH VARYING VALUES OF VISIBILITY

VISBY (NM)	SPD KTS	N	NE	E	SE	S	SW	W	NW	VAR	CALM	PCT	TOTAL OBS
<1/2	0-3	.0	.0	.0	.0	.0	.1	.0	.0	.0	.1	.1	
	4-10	.1	.0	.0	.0	.0	.0	.0	.0	.0	.0	.1	
	11-21	.0	.0	*	*	.0	.0	.0	.0	.0	.0	.1	
	22+	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
	TOT %	.1	.0	*	*	.0	.1	.0	.0	.0	.1	.3	
1/2<1	0-3	.1	.0	.0	.0	.0	.0	.0	.0	.0	.0	.1	
	4-10	.1	.0	.0	.0	.0	*	.1	*	.0	.0	.2	
	11-21	.1	.1	.0	.1	.1	.0	.1	.0	.0	.0	.5	
	22+	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
	TOT %	.3	.1	.0	.1	.1	*	.2	*	.0	.0	.8	
1<2	0-3	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
	4-10	*	.0	.0	.0	.0	.0	.0	*	.0	.0	.1	
	11-21	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
	22+	.0	.0	.0	*	*	.0	.0	.0	.0	.0	.1	
	TOT %	*	.0	.0	*	*	.0	.0	*	.0	.0	.1	
2<5	0-3	*	*	.0	.0	.0	.0	.0	.0	.0	.0	.1	
	4-10	.0	.0	.0	.0	.0	*	.1	.0	.0	.0	.1	
	11-21	.0	.0	.0	.1	.2	.1	.1	.0	.0	.0	.4	
	22+	.0	.0	.0	*	.1	.1	.0	.0	.0	.0	.2	
	TOT %	*	*	.0	.1	.3	.2	.1	.0	.0	.0	.8	
5<10	0-3	.2	.4	.2	.3	.3	.1	.1	.2	.0	.1	1.6	
	4-10	1.3	1.3	1.3	1.6	1.2	1.9	1.7	1.0	.0	.0	11.4	
	11-21	1.3	1.4	1.8	2.4	1.4	2.8	2.6	.9	.0	.0	14.6	
	22+	.2	.5	.2	.1	.5	1.8	1.9	.4	.0	.0	5.6	
	TOT %	3.0	3.6	3.4	4.4	3.4	6.6	6.2	2.5	.0	.1	33.2	
10+	0-3	.6	.2	.6	.2	.7	.2	.2	.1	.0	.6	3.5	
	4-10	2.7	2.7	3.3	3.2	4.6	4.9	3.2	1.7	.0	.0	26.2	
	11-21	1.7	3.0	3.6	2.5	5.1	4.3	6.0	1.7	.0	.0	28.0	
	22+	.4	.3	.1	.2	.8	1.8	3.0	.4	.0	.0	7.1	
	TOT %	5.5	6.3	7.7	6.1	11.1	11.2	12.3	4.0	.0	.6	64.8	
TOT OBS													1559
TOT PCT		8.9	9.9	11.1	10.8	14.9	18.1	18.9	6.6	.0	.7	100.0	



NOVEMBER

PERIOD: (PRIMARY) 1910-1969  
(OVER-ALL) 1854-1969

AREA 0014 AUSTRALIAN BIGHT SE  
36.25 132.1E

TABLE 10

PERCENT FREQUENCY OF CEILING HEIGHTS (FEET, NH >4/8) AND  
OCCURRENCE OF NH <5/8 BY HOUR

HOUR (GMT)	000 149	150 299	300 599	600 999	1000 1999	2000 3499	3500 4999	5000 6499	6500 7999	8000+	TOTAL	NH <5/8 ANY HGT	TOTAL OBS
00003	.0	.0	.4	7.9	16.9	6.4	5.6	1.9	.4	.7	40.1	59.9	267
06009	.0	.0	1.6	4.0	13.2	7.2	8.0	.4	1.2	.4	36.0	64.0	250
12015	.5	.0	.9	5.6	14.4	6.0	5.1	3.7	1.4	1.4	38.9	61.1	216
18021	.5	.0	1.1	5.9	17.3	10.3	9.7	1.1	.5	.0	46.5	53.5	185
TOT	2	0	9	54	141	67	64	16	8	6	367	551	918
PCT	.2	.0	1.0	5.9	15.4	7.3	7.0	1.7	.9	.7	40.0	60.0	100.0

TABLE 11

PERCENT FREQUENCY VSBY (NM) BY HOUR

HOUR (GMT)	<1/2	1/2<1	1<2	2<5	5<10	10+	TOTAL OBS
00003	.4	.4	.0	.8	37.6	60.8	508
06009	.3	1.1	.0	.5	28.3	69.8	368
12015	.2	1.2	.0	1.2	37.5	59.8	413
18021	.0	.3	.6	.3	28.9	69.8	315
TOT	4	12	2	12	541	1033	1604
PCT	.2	.7	.1	.7	33.7	64.4	100.0

TABLE 12

CUMULATIVE PCT FREQ OF RANGES OF VSBY (NM) AND/OR  
CEILING HGT (FEET, NH >4/8), BY HOUR

HOUR (GMT)	<150 <50YD	<600 <1	<1000 <5	1000+ AND 5+	NH <5/8 AND 5+	TOTAL OBS
00003	.0	.4	8.6	33.2	58.2	256
06009	.0	1.7	6.3	30.8	62.9	240
12015	.5	1.5	8.7	32.0	59.2	206
18021	.6	1.7	8.6	40.6	50.9	175
TOT	2	11	70	296	511	877
PCT	.2	1.3	8.0	33.8	58.3	100.0

TABLE 13

PERCENT FREQUENCY OF RELATIVE HUMIDITY BY TEMP

TEMP F	0-29	30-39	40-49	50-59	60-69	70-79	80-89	90-100	TOTAL OBS	PCT FREQ
70/74	.0	.0	.0	.1	.3	.2	.0	.0	6	.5
65/69	.0	.1	.0	.1	.7	1.7	1.4	.1	46	4.1
60/64	.0	.0	.2	.7	4.2	8.8	9.4	4.1	308	27.3
55/59	.0	.0	.2	2.1	9.8	17.2	19.5	7.3	633	56.2
50/54	.0	.0	.0	.9	3.5	2.6	3.2	1.8	134	11.9
TOTAL	0	1	4	44	208	343	378	149	1127	100.0
PCT	.0	.1	.4	3.9	18.5	30.4	33.5	13.2		

TABLE 14

PERCENT FREQUENCY OF WIND DIRECTION BY TEMP

N	NE	E	SE	S	SW	W	NW	VAR	CALM
.2	*	.0	.1	.0	*	*	.1	.0	.0
.6	1.1	.7	.1	.4	.1	.4	.5	.0	.1
3.8	4.5	2.7	2.2	1.8	4.1	5.0	2.9	.0	.4
3.9	4.5	6.1	6.4	9.8	10.0	11.4	4.0	.0	.1
.0	.1	.7	1.4	3.3	3.9	2.1	.2	.0	.2
8.5	10.2	10.2	10.1	15.4	18.2	19.0	7.7	.0	.7

TABLE 15

MEANS, EXTREMES AND PERCENTILES OF TEMP (DEG F) BY HOUR

HOUR (GMT)	MAX	99%	95%	50%	5%	1%	MIN	MEAN	TOTAL OBS
00003	74	68	65	59	53	52	49	58.9	736
06009	72	70	67	59	55	52	49	59.8	438
12015	68	65	62	57	53	51	49	57.1	568
18021	70	64	62	56	52	51	50	56.3	404
TOT	74	68	64	58	53	51	49	58.1	2146

TABLE 16

PERCENT FREQUENCY OF RELATIVE HUMIDITY BY HOUR

HOUR (GMT)	0-29	30-39	40-49	50-59	60-69	70-79	80-89	90-100	MEAN	TOTAL OBS
00003	.0	4.8	19.4	30.5	36.5	8.8	77	351		
06009	.0	6.7	25.9	33.3	25.5	8.5	75	282		
12015	.0	2.1	14.8	30.0	31.4	21.6	80	283		
18021	.0	3.8	12.6	27.2	38.9	17.6	80	239		
TOT	0	51	213	351	382	158	78	1155		

PERIOD: (PRIMARY) 1910-1969  
(OVER-ALL) 1854-1969

# NOVEMBER

AREA 0014 AUSTRALIAN EIGHT SE  
36.2S 132.1E

TABLE 17

PCT FREQ OF AIR TEMPERATURE (DEG F) AND THE OCCURRENCE OF FOG (WITHOUT PRECIPITATION)  
VS AIR-SEA TEMPERATURE DIFFERENCE (DEG F)

AIR-SEA TMP DIF	49 52	53 56	57 60	61 64	65 68	69 72	73 76	TOT FOG	W FOG	NO FOG
11/13	.0	.0	.0	.0	.2	.1	.1	4	.0	.3
9/10	.0	.0	.0	.0	.2	.4	.0	7	.0	.6
7/8	.0	.0	.1	.2	.7	.2	.0	15	.2	1.1
6	.0	.0	.0	.5	.6	.1	.0	14	.0	1.1
5	.0	.0	.0	.9	1.0	.1	.0	24	.0	1.9
4	.0	.0	1.1	2.5	.7	.0	.0	53	.1	4.2
3	.0	.0	1.9	3.3	.2	.0	.0	67	.1	5.3
2	.0	.3	4.5	4.4	.1	.0	.0	115	.2	9.1
1	.0	1.3	8.3	3.5	.1	.0	.0	163	.4	12.8
0	.0	2.6	10.4	1.4	.0	.0	.0	177	.3	14.0
-1	.0	5.8	9.2	.5	.0	.0	.0	191	.0	15.5
-2	.2	6.3	5.3	.3	.1	.0	.0	151	.0	12.2
-3	.3	7.7	2.4	.2	.0	.0	.0	130	.0	10.5
-4	.4	3.6	1.0	.0	.0	.0	.0	61	.0	4.9
-5	.5	2.1	.8	.1	.0	.0	.0	43	.0	3.5
-6	.1	.6	.0	.0	.0	.0	.0	8	.0	.6
-7/-8	.2	.4	.2	.0	.0	.0	.0	10	.0	.8
-9/-10	.0	.1	.0	.0	.0	.0	.0	1	.0	.1
TOTAL	21	379	558	218	46	11	1	1234	1.3	98.7
PCT	1.7	30.7	45.2	17.7	3.7	.9	.1	100.0	1.3	98.7

PERIOD: (OVER-ALL) 1963-1969

TABLE 18

PCT FREQ OF WIND SPEED (KTS) AND DIRECTION VERSUS SEA HEIGHTS (FT)

HGT	1-3	4-10	11-21	22-33	34-47	48+	PCT	1-3	4-10	11-21	22-33	34-47	48+	PCT
<1	.0	.0	.0	.0	.0	.0	.0	.0	.6	.0	.0	.0	.0	.6
1-2	.0	1.2	.3	.0	.0	.0	1.5	.2	2.2	.7	.0	.0	.0	3.1
3-4	.0	1.2	.9	.0	.0	.0	2.0	.0	1.6	2.1	.0	.0	.0	3.5
5-6	.0	.6	.2	.0	.0	.0	.7	.0	.5	2.0	.0	.0	.0	2.4
7	.2	.0	.8	.0	.0	.0	.9	.0	.0	.1	.0	.0	.0	.1
8-9	.0	.0	.0	.2	.0	.0	.2	.0	.0	.2	.0	.0	.0	.2
10-11	.0	.0	.2	.0	.0	.0	.2	.0	.0	.1	.0	.0	.0	.1
12	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
13-16	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
17-19	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
20-22	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
23-25	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
26-32	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
33-40	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
41-48	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
49-60	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
61-70	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
71-86	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
87+	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
TOT PCT	.2	2.9	2.2	.2	.0	.0	5.4	.2	4.6	5.0	.0	.0	.0	9.8

HGT	1-3	4-10	11-21	22-33	34-47	48+	PCT	1-3	4-10	11-21	22-33	34-47	48+	PCT
<1	.0	1.0	.0	.0	.0	.0	1.0	.2	.5	.0	.0	.0	.0	.7
1-2	.0	1.6	.2	.0	.0	.0	1.8	.0	2.8	.4	.0	.0	.0	3.2
3-4	.0	2.7	3.2	.0	.0	.0	5.9	.2	2.2	1.8	.0	.0	.0	4.2
5-6	.0	.2	2.2	.0	.0	.0	2.4	.0	.3	1.2	.4	.0	.0	1.8
7	.0	.0	.2	.2	.0	.0	.4	.0	.0	.7	.0	.0	.0	.7
8-9	.0	.0	.4	.0	.0	.0	.4	.0	.0	.1	.1	.0	.0	.1
10-11	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
12	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
13-16	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
17-19	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
20-22	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
23-25	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
26-32	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
33-40	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
41-48	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
49-60	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
61-70	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
71-86	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
87+	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
TOT PCT	.0	5.5	6.1	.2	.0	.0	11.7	.4	3.7	4.1	.5	.0	.0	10.7

PERIOD: (OVER-ALL) 1963-1969

NOVEMBER

AREA 0014 AUSTRALIAN RIGHT SE  
36.25 132.1E

TABLE 18 (CONT)

PCT FREQ OF WIND SPEED (KTS) AND DIRECTION VERSUS SEA HEIGHTS (FT)

HGT	S							SW							PCT
	1-3	4-10	11-21	22-33	34-47	48+	PCT	1-3	4-10	11-21	22-33	34-47	48+	PCT	
<1	.4	1.6	.2	.0	.0	.0	2.1	.3	.4	.1	.0	.0	.0	.7	
1-2	.4	2.6	.4	.0	.0	.0	3.4	.1	5.4	.5	.0	.0	.0	5.9	
3-4	.0	2.1	3.9	.0	.0	.0	6.0	.0	2.5	2.5	.0	.0	.0	5.0	
5-6	.0	.4	3.2	.0	.0	.0	3.6	.0	.4	2.1	.2	.0	.0	2.7	
7	.0	.0	.5	.6	.0	.0	1.1	.0	.2	.7	1.9	.5	.0	3.2	
8-9	.0	.0	.2	.4	.0	.0	.6	.0	.0	.1	.3	.0	.0	.4	
10-11	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.3	.0	.0	.3	
12	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.3	.4	.0	.7	
13-16	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
17-19	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
20-22	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
23-25	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.2	.0	.0	.2	
26-32	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
33-40	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
41-48	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
49-60	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
61-70	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
71-86	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
87+	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
TOT PCT	.8	6.7	8.4	.9	.0	.0	16.7	.4	8.8	5.8	3.1	.9	.0	18.9	

HGT	W							NW							TOTAL PCT
	1-3	4-10	11-21	22-33	34-47	48+	PCT	1-3	4-10	11-21	22-33	34-47	48+	PCT	
<1	.0	.4	.0	.0	.0	.0	.4	.0	.0	.0	.0	.0	.0	.0	
1-2	.7	3.2	.2	.0	.0	.0	4.1	.2	1.9	.5	.0	.0	.0	2.6	
3-4	.0	1.8	3.5	.2	.0	.0	5.4	.2	1.4	.9	.0	.0	.0	2.4	
5-6	.0	.0	2.2	.8	.0	.0	3.0	.0	.0	.5	.6	.0	.0	1.1	
7	.0	.0	1.4	2.2	.3	.0	3.8	.1	.0	.2	.1	.0	.0	.3	
8-9	.0	.0	.2	.7	.0	.0	.9	.0	.0	.0	.1	.0	.0	.1	
10-11	.0	.0	.0	.6	.0	.0	.6	.0	.0	.0	.0	.0	.0	.0	
12	.0	.0	.0	.4	.2	.0	.6	.0	.0	.0	.2	.0	.0	.2	
13-16	.0	.0	.0	.2	.0	.0	.2	.0	.0	.0	.2	.2	.0	.4	
17-19	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
20-22	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
23-25	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
26-32	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
33-40	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
41-48	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
49-60	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
61-70	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
71-86	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
87+	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
TOT PCT	.7	5.3	7.3	5.0	.5	.0	18.8	.5	3.2	2.2	.9	.2	.0	7.0	98.8

WIND SPEED (KTS) VS SEA HEIGHT (FT)

HGT	0-3	4-10	11-21	22-33	34-47	48+	PCT	TOT DBS
<1	2.8	4.3	.2	.0	.0	.0	7.3	
1-2	2.2	20.5	3.0	.0	.0	.0	25.6	
3-4	.4	14.8	18.3	.2	.0	.0	33.7	
5-6	.0	2.2	13.2	2.0	.0	.0	17.4	
7	.2	.2	4.3	4.7	.8	.0	10.3	
8-9	.0	.0	1.0	1.6	.0	.0	2.6	
10-11	.0	.0	.2	.8	.0	.0	1.0	
12	.0	.0	.0	.8	.6	.0	1.4	
13-16	.0	.0	.2	.2	.2	.0	.6	
17-19	.0	.0	.0	.0	.0	.0	.0	
20-22	.0	.0	.0	.0	.0	.0	.0	
23-25	.0	.0	.0	.2	.0	.0	.2	
26-32	.0	.0	.0	.0	.0	.0	.0	
33-40	.0	.0	.0	.0	.0	.0	.0	
41-48	.0	.0	.0	.0	.0	.0	.0	
49-60	.0	.0	.0	.0	.0	.0	.0	
61-70	.0	.0	.0	.0	.0	.0	.0	
71-86	.0	.0	.0	.0	.0	.0	.0	
87+	.0	.0	.0	.0	.0	.0	.0	
TOT PCT	5.5	42.0	40.4	10.5	1.6	.0	100.0	507

PERIOD: (OVER-ALL) 1949-1969

TABLE 19

PERCENT FREQUENCY OF WAVE HEIGHT (FT) VS WAVE PERIOD (SECONDS)

PERIOD (SEC)	<1	1-2	3-4	5-6	7	8-9	10-11	12	13-16	17-19	20-22	23-25	26-32	33-40	41-48	49-60	61-70	71-86	87+	TOTAL	MEAN HGT
<6	.3	4.6	4.5	5.7	1.2	.5	.3	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	125	4
6-7	.0	.7	4.1	6.1	3.7	2.0	1.0	1.6	1.0	.3	.3	.0	.0	.0	.0	.0	.0	.0	.0	152	7
8-9	.0	.0	1.5	6.0	6.3	4.2	3.3	1.5	2.0	.3	.7	.1	.1	.0	.0	.0	.0	.0	.0	191	8
10-11	.0	.3	.4	1.6	3.6	4.1	2.3	1.2	2.2	.4	.1	.0	.0	.0	.0	.0	.0	.0	.0	119	9
12-13	.0	.0	.7	1.0	.3	1.9	1.6	.1	1.8	.1	.3	.0	.0	.0	.0	.0	.0	.0	.0	57	10
>13	.0	.0	.0	.3	.8	.3	.0	.1	.5	.3	.1	.4	.0	.0	.0	.0	.0	.0	.0	21	12
INDET	.4	1.1	1.4	1.8	1.9	.4	.7	.8	.4	.1	.0	.0	.0	.0	.0	.0	.0	.0	.0	65	6
TOTAL	5	49	92	165	130	99	67	40	58	11	11	4	1	0	0	0	0	0	0	732	7
PCT	.7	6.7	12.6	22.5	17.8	13.5	9.2	5.5	7.9	1.5	1.5	.5	.1	.0	.0	.0	.0	.0	.0	100.0	

PERIOD: (PRIMARY) 1908-1971  
(OVER-ALL) 1854-1971

DECEMBER

AREA 0014 AUSTRALIAN BIGHT SE  
36.15 132.1E

TABLE 1

PERCENT FREQUENCY OF WEATHER OCCURRENCE BY WIND DIRECTION

PRECIPITATION TYPE										OTHER WEATHER PHENOMENA						
WIND DIR	RAIN	RAIN SHWR	DRZL	FRZG PCPN	SNOW	OTHER FRZN PCPN	HAIL	PCPN AT DB TIME	PCPN PAST HOUR	THOR LTNG	FOG WD PCPN	FOG WD PCPN PAST HR	SMOKE HAZE	SPRAY BLWG DUST	NO SIG WEA	
N	.0	1.2	1.2	.0	.0	.0	.0	2.4	.0	4.3	8.6	.0	3.1	.0	81.6	
NE	.7	.4	2.0	.0	.0	.0	.0	3.0	.7	.7	8.0	.0	2.1	.0	84.8	
E	2.0	1.2	1.8	.0	.0	.0	.0	5.1	.4	4.1	3.0	.0	.7	.0	87.9	
SE	1.0	2.1	1.3	.0	.0	.0	.0	4.4	.5	.5	.8	.0	1.3	.0	92.5	
S	2.0	3.1	1.0	.0	.0	.0	.0	6.1	1.2	.9	.2	.0	.3	.0	91.7	
SW	.8	6.1	1.6	.0	.0	.0	.0	8.6	2.4	.3	1.0	.0	.8	.0	86.9	
W	1.7	7.5	3.1	.0	.0	.0	.0	12.3	2.4	1.7	2.5	.0	2.5	.0	79.0	
NW	.0	2.6	2.3	.0	.0	.0	.0	4.9	1.4	.3	2.3	.0	2.0	.0	89.1	
VAR	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
CALM	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	100.0	
TOT PCT	1.3	3.6	1.8	.0	.0	.0	.0	6.6	1.3	1.5	2.5	.0	1.3	.0	87.1	
TOT OBS:	1512															

TABLE 2

PERCENT FREQUENCY OF WEATHER OCCURRENCE BY HOUR

HOUR (GMT)	PRECIPITATION TYPE							OTHER WEATHER PHENOMENA							
	RAIN	RAIN SHWR	DRZL	FRZG PCPN	SNOW	OTHER FRZN PCPN	HAIL	PCPN AT OB TIME	PCPN PAST HOUR	THOR LTNG	FOG WD PCPN	FOG WD PCPN PAST HR	SMOKE HAZE	SPRAY BLWG DUST	NO SIG WEA
00003	.9	2.8	2.1	.0	.0	.0	.0	5.7	1.9	.4	3.4	.0	1.5	.0	87.2
06009	.5	2.6	1.3	.0	.0	.0	.0	4.5	1.3	.0	2.4	.0	1.0	.0	90.8
12015	1.7	5.6	1.0	.0	.0	.0	.0	8.3	.7	2.0	2.9	.0	1.7	.0	84.6
18021	2.2	2.9	2.9	.0	.0	.0	.0	8.1	1.5	4.4	1.5	.0	.7	.0	85.0
TOT PCT	1.2	3.5	1.8	.0	.0	.0	.0	6.5	1.4	1.4	2.7	.0	1.3	.0	87.0
TOT OBS:	1534														

TABLE 3

PERCENTAGE FREQUENCY OF WIND DIRECTION BY SPEED AND BY HOUR

WIND DIR	WIND SPEED (KNOTS)							TOTAL DBS	PCT FREQ	MEAN SPD	HOUR (GMT)							
	0-3	4-10	11-21	22-33	34-47	48+					00	03	06	09	12	15	18	21
N	.6	2.9	2.1	.2	*	*		5.8	10.6	5.9	9.1	4.6	.0	4.7	6.3	5.8	.0	
NE	.5	3.6	4.4	.5	.0	.0		9.0	11.7	11.1	8.3	9.1	.0	8.3	6.5	9.1	7.1	
E	.7	6.4	6.7	.7	.0	.0		14.5	11.5	13.0	12.3	15.3	66.7	14.8	16.1	15.4	50.0	
SE	.5	4.8	5.1	1.5	.1	.0		11.9	12.9	12.5	11.5	11.9	33.3	12.9	12.8	9.9	.0	
S	.4	6.3	6.0	1.3	.3	.0		14.3	13.0	14.1	12.2	17.6	.0	14.9	13.3	12.1	14.3	
SW	.8	6.4	9.2	3.6	.5	.0		20.5	14.9	19.1	20.9	19.8	.0	20.8	21.6	22.2	14.3	
W	.7	5.7	7.0	2.6	.4	*		16.4	14.3	17.6	16.3	14.9	.0	16.7	14.6	18.0	.0	
NW	.3	2.9	2.5	.6	.2	*		6.4	13.1	6.0	8.2	6.5	.0	5.5	6.8	5.7	14.3	
VAR	.0	.0	.0	.0	.0	.0		.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
CALM	1.2							1.2	.0	.8	1.1	.4	.0	1.6	2.1	1.9	.0	
TOT DBS	129	902	999	256	33	2	2321	13.0		477	349	478	3	437	192	378	7	
TOT PCT	5.6	38.9	43.0	11.0	1.4	.1		100.0		100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	

TABLE 3A

WIND DIR	WIND SPEED (KNOTS)							TOTAL DBS	PCT FREQ	MEAN SPD	HOUR (GMT)			
	0-6	7-16	17-27	28-40	41+						00	06	12	18
N	2.0	2.6	1.1	.1	*			5.8	10.6	7.2	4.5	5.2	5.6	
NE	1.4	6.1	1.4	.1	.0			9.0	11.7	9.9	9.0	7.6	9.1	
E	2.7	9.1	2.7	.1	.0			14.5	11.5	12.7	15.6	15.2	16.0	
SE	2.1	6.4	2.9	.4	*			11.9	12.9	12.0	12.0	12.9	9.7	
S	2.5	7.6	3.5	.5	.1			14.3	13.0	13.3	17.5	14.4	12.1	
SW	2.9	9.8	5.8	1.8	.2			20.5	14.9	19.9	19.7	21.1	22.0	
W	2.6	8.2	4.4	1.1	.1			16.4	14.3	17.1	14.8	16.1	17.7	
NW	1.3	3.1	1.5	.4	.1			6.4	13.1	6.9	6.4	5.9	5.8	
VAR	.0	.0	.0	.0	.0			.0	.0	.0	.0	.0	.0	
CALM	1.2							1.2	.0	1.0	.4	1.7	1.8	
TOT DBS	433	1230	539	106	13	2321		13.0		826	481	629	385	
TOT PCT	18.7	53.0	23.2	4.6	.6			100.0		100.0	100.0	100.0	100.0	

DECEMBER

PERIOD: (PRIMARY) 1908-1971  
(OVER-ALL) 1854-1971

AREA 0014 AUSTRALIAN BIGHT SF  
36.15 132.1E

TABLE 4

PERCENTAGE FREQUENCY OF WIND SPEED BY HOUR (GMT)

HOUR	CALM	WIND SPEED (KNOTS)						PCT FREQ	TOTAL OBS
		1-3	4-10	11-21	22-33	34-47	48+		
00003	1.0	5.1	37.2	44.8	10.5	1.3	.1	12.9	826
06009	.4	4.0	35.8	48.0	10.6	1.0	.2	13.4	481
12015	1.7	4.0	41.2	40.1	10.8	2.2	.0	12.9	629
18021	1.8	3.9	42.6	37.9	13.0	.8	.0	12.7	385
TOT	28	101	902	999	256	33	2	13.0	2921
PCT	1.2	4.4	38.9	43.0	11.0	1.4	.1	100.0	

TABLE 5

PCT FREQ OF TOTAL CLOUD AMOUNT (EIGHTHS)  
BY WIND DIRECTION

WIND DIR	0-2	3-4	5-7	8 & OBS	TOTAL OBS	MEAN CLOUD COVER
N	.8	.5	2.0	.6	5.1	5.1
NE	3.4	1.2	3.8	1.6	4.4	4.4
E	3.0	3.0	6.3	4.1	5.1	5.1
SE	1.2	1.4	3.9	4.8	6.2	6.2
S	2.4	2.4	6.4	4.2	5.6	5.6
SW	4.1	3.5	6.8	6.2	5.2	5.2
W	3.4	2.3	5.6	4.0	5.1	5.1
NW	1.7	1.2	2.5	.8	4.6	4.6
VAR	.0	.0	.0	.0	.0	.0
CALM	.2	.3	.1	.1	3.2	3.2
TOT OBS	180	141	332	235	888	5.2
TOT PCT	20.3	15.9	37.4	26.5	100.0	

TABLE 6

PERCENTAGE FREQUENCY OF CEILING HEIGHTS (FT, NH >4/8)  
AND OCCURRENCE OF NH <5/8 BY WIND DIRECTION

	000 149	150 299	300 599	400 999	1000 1999	2000 3499	3500 4999	5000 6499	6500 7999	8000+	NH <5/8 ANY HGT	TOTAL OBS
N	.0	.0	.1	.2	.6	.3	.2	.0	.1	.0	.2	2.4
NE	.0	.0	.1	.3	.6	.8	.8	.3	.0	.1	.7	7.0
E	.0	.0	.0	1.0	2.3	2.6	1.2	.6	.0	.7	.8	8.0
SE	.0	.0	.0	.7	3.6	1.7	.8	.5	.2	.3	.3	3.6
S	.1	.2	.1	2.6	2.7	1.2	1.0	.6	.0	.0	.6	6.9
SW	.1	.0	.2	1.9	3.5	2.8	1.0	.3	.3	.1	10.2	8.1
W	.0	.0	.3	1.9	1.8	1.6	1.4	.2	.0	.0	.4	3.4
NW	.0	.0	.0	.5	1.1	.6	.2	.3	.0	.2	.3	3.4
VAR	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
CALM	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
TOT OBS	2	2	8	79	144	104	59	25	6	13	446	888
TOT PCT	.2	.2	.9	8.9	16.2	11.7	6.6	2.8	.7	1.5	50.2	100.0

TABLE 7

CUMULATIVE PCT FREQ OF SIMULTANEOUS OCCURRENCE  
OF CEILING HEIGHT (NH >4/8) AND VSBY (NM)

CEILING (FEET)	VSBY (NM)							
	>10	>5	>2	>1	>1/2	>1/4	>30YD	>0
OR >5000	2.0	2.1	2.2	2.2	2.2	2.2	2.2	2.2
OR >5000	4.2	4.9	5.0	5.0	5.0	5.0	5.0	5.0
OR >3500	10.6	11.7	11.8	11.8	11.8	11.8	11.8	11.8
OR >2000	20.2	23.2	23.4	23.4	23.4	23.4	23.4	23.4
OR >1000	34.0	38.9	39.5	39.5	39.5	39.5	39.6	39.6
OR >500	40.7	47.7	48.5	48.5	48.5	48.5	48.6	48.6
OR >300	41.2	48.5	49.4	49.4	49.4	49.4	49.5	49.5
OR >150	41.4	48.7	49.6	49.6	49.6	49.6	49.7	49.7
OR >0	41.6	48.9	49.8	49.8	49.8	49.8	49.9	49.9
TOTAL	374	440	448	448	448	448	449	449

TOTAL NUMBER OF OBS: 899

PCT FREQ NH <5/8: 50.1

TABLE 7A

PERCENTAGE FREQ OF LOW CLOUDS (EIGHTHS)

	0	1	2	3	4	5	6	7	8	OBS	TOTAL OBS
	9.0	10.1	12.4	9.1	8.0	7.5	8.6	12.9	22.3	.0	974



PERIOD: (PRIMARY) 1909-1971  
(OVER-ALL) 1854-1971

DECEMBER

AREA 0014 AUSTRALIAN BIGHT SE  
36.15 132.1E

TABLE 8

PERCENT FREQ OF WIND DIRECTION VS OCCURRENCE OR NON-OCCURRENCE OF  
PRECIPITATION WITH VARYING VALUES OF VISIBILITY

VSBY (NM)		N	NE	E	SE	S	SW	W	NW	VAR	CALM	PCT	TOTAL OBS
<1/2	PCP	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
	NO PCP	*	.2	.0	.0	.0	.0	.0	.0	.0	.0	.0	.3
	TOT %	*	.2	.0	.0	.0	.0	.0	.0	.0	.0	.0	.3
1/2<1	PCP	.0	.0	.0	.0	.0	.2	.1	.1	.0	.0	.0	.4
	NO PCP	.1	.5	.5	*	*	.1	.3	.1	.0	.0	.0	1.7
	TOT %	.1	.5	.5	*	*	.3	.4	.3	.0	.0	.0	2.1
1<2	PCP	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
	NO PCP	.1	.0	.0	.1	.0	.0	.2	*	.0	.0	.0	.5
	TOT %	.1	.0	.0	.1	.0	.0	.2	*	.0	.0	.0	.5
2<5	PCP	.0	.1	.1	.0	*	.1	.0	.0	.0	.0	.0	.3
	NO PCP	.0	.1	.1	.1	.1	.3	.0	.1	.0	.0	.0	.7
	TOT %	.0	.1	.1	.1	.1	.3	.0	.1	.0	.0	.0	.9
5<10	PCP	*	.2	.6	.5	.5	.9	1.4	.1	.0	.0	.0	4.4
	NO PCP	1.6	2.3	4.7	5.0	5.2	7.1	5.0	1.4	.0	.2	.2	32.6
	TOT %	1.6	2.5	5.2	5.5	5.9	8.0	6.4	1.5	.0	.2	.2	36.9
10+	PCP	*	.0	.2	.1	.3	.5	.5	*	.0	.0	.0	1.6
	NO PCP	2.3	5.9	10.2	7.0	9.0	10.5	8.4	3.9	.0	.6	.6	57.7
	TOT %	2.3	5.9	10.4	7.0	9.2	11.1	8.8	3.9	.0	.6	.6	59.3
TOT OBS													1511
TOT PCT													100.0

TABLE 9

PERCENT FREQ OF WIND DIRECTION VS WIND SPEED  
WITH VARYING VALUES OF VISIBILITY

VSBY (NM)	SPD KTS	N	NE	E	SE	S	SW	W	NW	VAR	CALM	PCT	TOTAL OBS
<1/2	0-3	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
	4-10	.0	.1	.0	.0	.0	.0	.0	.0	.0	.0	.0	.1
	11-21	*	.1	.0	.0	.0	.0	.0	.0	.0	.0	.0	.1
	22+	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
	TOT %	*	.2	.0	.0	.0	.0	.0	.0	.0	.0	.0	.2
1/2<1	0-3	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
	4-10	.0	.2	.2	.0	.0	.0	.0	.1	.0	.0	.0	.5
	11-21	.1	.2	.3	*	*	.1	.1	.1	.0	.0	.0	.9
	22+	.0	.0	.0	.0	.0	.1	.3	.1	.0	.0	.0	.5
	TOT %	.1	.5	.5	*	*	.2	.4	.2	.0	.0	.0	1.9
1<2	0-3	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
	4-10	.1	.0	.0	.1	.0	.0	.1	.0	.0	.0	.0	.2
	11-21	.0	.0	.0	.0	.0	.0	.1	*	.0	.0	.0	.1
	22+	.0	.0	.0	.0	.0	.0	.1	.0	.0	.0	.0	.1
	TOT %	.1	.0	.0	.1	.0	.0	.2	*	.0	.0	.0	.4
2<5	0-3	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
	4-10	.0	.1	.1	.1	.1	.1	.0	.1	.0	.0	.0	.4
	11-21	.0	.0	.1	.1	.0	.2	.0	.0	.0	.0	.0	.4
	22+	.0	.0	.0	.1	*	.1	.0	.0	.0	.0	.0	.2
	TOT %	.0	.1	.1	.2	.1	.4	.0	.1	.0	.0	.0	1.0
5<10	0-3	.2	.1	.1	.2	.0	.1	.1	.0	.0	.2	.0	1.0
	4-10	.7	1.0	2.1	2.0	2.1	1.5	1.8	.7	.0	.0	.0	11.8
	11-21	.5	1.2	2.2	2.4	2.6	3.4	2.0	.5	.0	.0	.0	14.9
	22+	.1	.1	.3	.7	.8	2.7	2.0	.2	.0	.0	.0	6.9
	TOT %	1.5	2.4	4.8	5.3	5.5	7.7	5.9	1.4	.0	.2	.2	34.6
10+	0-3	.2	.2	.4	.3	.3	.6	.3	*	.0	.8	.0	3.1
	4-10	1.2	1.8	4.8	3.3	4.7	4.2	3.4	1.5	.0	.0	.0	24.7
	11-21	1.0	3.2	5.1	3.6	3.5	5.5	4.8	1.9	.0	.0	.0	28.5
	22+	*	.4	.4	.9	.5	1.7	1.1	.5	.0	.0	.0	5.6
	TOT %	2.3	5.6	10.7	8.1	8.9	12.0	9.6	3.9	.0	.8	.8	61.8
TOT OBS													1656
TOT PCT													100.0

DECEMBER

PERIOD: (PRIMARY) 1908-1971  
(OVER-ALL) 1854-1971

AREA 0014 AUSTRALIAN BIGHT SE  
36.15 132.1E

TABLE 10

PERCENT FREQUENCY OF CEILING HEIGHTS (FEET, NH > 4/8) AND  
OCCURRENCE OF NH < 5/8 BY HOUR

HOUR (GMT)	000	150	300	600	1000	2000	3500	5000	6500	8000+	TOTAL	NH < 5/8 ANY HGT	TOTAL OBS
	149	299	599	999	1999	3499	4999	6499	7999				
00003	.4	.4	1.1	10.2	16.7	11.7	6.4	3.4	.8	1.1	52.3	47.7	264
06009	.0	.4	1.1	5.3	14.4	11.4	6.4	2.3	.4	1.9	43.6	56.4	264
12015	.0	.0	.5	10.5	14.2	12.3	5.5	2.7	1.4	.9	47.9	52.1	219
18021	.6	.0	.6	9.7	18.8	9.1	8.5	2.3	.6	1.7	51.7	48.3	176
TOT	2	2	8	81	146	104	61	25	7	13	449	474	923
PCT	.2	.2	.9	8.6	15.8	11.3	6.6	2.7	.8	1.4	48.6	51.4	100.0

TABLE 11

PERCENT FREQUENCY VSBY (NM) BY HOUR

HOUR (GMT)	<1/2	1/2<1	1<2	2<5	5<10	10+	TOTAL OBS
00003	.0	2.5	.4	1.1	36.3	59.7	523
06009	.2	2.0	.0	1.2	28.0	68.6	407
12015	.7	1.3	.9	.4	40.2	56.5	455
18021	.0	2.0	.3	1.0	32.0	64.6	294
TOT	4	33	7	16	581	1038	1679
PCT	.2	2.0	.4	1.0	34.6	61.8	100.0

TABLE 12

CUMULATIVE PCT FREQ OF RANGES OF VSBY (NM) AND/OR  
CEILING HGT (FEET, NH > 4/8), BY HOUR

HOUR (GMT)	<150 <500	<600 <1	<1000 <5	1000+ AND 5+	NH < 5/8 AND 5+	TOTAL OBS
00003	.4	1.9	13.8	39.8	46.4	261
06009	.0	1.9	8.6	37.0	54.5	257
12015	.0	.5	12.6	38.6	48.8	207
18021	.6	1.1	12.1	40.8	47.1	174
TOT	2	13	105	350	444	899
PCT	.2	1.4	11.7	38.9	49.4	100.0

TABLE 13

PERCENT FREQUENCY OF RELATIVE HUMIDITY BY TEMP

TEMP F	0-29	30-39	40-49	50-59	60-69	70-79	80-89	90-100	TOTAL OBS	PCT FREQ
70/74	.0	.0	.0	.0	.2	.2	.0	.0	4	.4
65/69	.0	.0	.1	.3	1.2	2.8	3.6	.5	94	8.5
60/64	.0	.0	.4	1.9	8.5	12.3	18.3	8.1	549	49.5
55/59	.0	.0	.0	1.5	7.8	13.9	12.0	4.5	441	39.7
50/54	.0	.0	.1	.7	.5	.4	.4	.4	22	2.0
TOTAL	0	0	5	42	204	329	380	150	1110	100.0
PCT	.0	.0	.5	3.8	18.4	29.6	34.2	13.5		

TABLE 14

PERCENT FREQUENCY OF WIND DIRECTION BY TEMP

N	NE	E	SE	S	SW	W	NW	VAR	CALM
.0	.0	.1	.0	.1	.1	.0	.1	.0	.0
.7	1.4	2.1	.7	1.3	.7	.7	.9	.0	.1
2.0	5.6	9.1	5.9	7.3	7.7	8.5	3.4	.0	.1
1.1	2.2	4.5	5.6	8.1	10.5	5.8	1.4	.0	.5
*	.0	*	*	.5	1.1	.2	*	.0	.0
3.8	9.3	15.8	12.2	17.2	20.0	15.2	5.8	.0	.7

TABLE 15

MEANS, EXTREMES AND PERCENTILES OF TEMP (DEG F) BY HOUR

HOUR (GMT)	MAX	99%	95%	50%	5%	1%	MIN	MEAN	TOTAL OBS
00003	79	70	67	61	56	54	51	61.2	794
06009	75	71	68	62	56	55	53	61.8	474
12015	72	67	64	59	55	53	51	59.5	625
18021	75	67	64	59	55	53	51	59.0	381
TOT	79	69	67	60	55	53	51	60.5	2274

TABLE 16

PERCENT FREQUENCY OF RELATIVE HUMIDITY BY HOUR

HOUR (GMT)	0-29	30-39	40-49	50-59	60-69	70-79	80-89	90-100	MEAN	TOTAL OBS
00003	.0	5.8	22.8	20.5	32.2	9.6	76	342		
06009	.0	5.4	26.4	19.4	29.7	9.1	76	296		
12015	.0	1.8	9.9	33.7	38.7	16.0	81	282		
18021	.0	3.4	11.7	25.2	36.9	22.8	82	206		
TOT	0	48	208	335	383	152	78	1126		

## DECEMBER

PERIOD: (PRIMARY) 1908-1971  
(OVER-ALL) 1854-1971AREA 0014 AUSTRALIAN BIGHT SE  
36.1S 132.1E

TABLE 17

PCT FREQ OF AIR TEMPERATURE (DEG F) AND THE OCCURRENCE OF FOG (WITHOUT PRECIPITATION)  
VS AIR-SEA TEMPERATURE DIFFERENCE (DEG F)

AIR-SEA TMP DIF	49 52	53 55	57 60	61 64	65 68	69 72	73 76	TOT	N FOG	NO FOG
11/13	.0	.0	.0	.0	.0	.1	.1	2	.0	.1
9/10	.0	.0	.0	.1	.0	.1	.1	4	.0	.3
7/8	.0	.0	.0	.1	.4	.1	.0	9	.0	.7
6	.0	.0	.0	.4	.4	.1	.0	11	.0	.8
5	.0	.0	.1	.2	1.0	.1	.0	19	.0	1.4
4	.0	.0	.1	1.3	2.0	.2	.0	48	.2	3.4
3	.0	.0	.6	2.3	1.3	.0	.0	57	.4	3.8
2	.0	.0	1.8	4.7	1.8	.1	.0	113	.7	7.7
1	.0	.1	2.7	8.0	.8	.0	.0	155	.3	11.3
0	.0	.7	7.8	8.2	.4	.0	.0	228	.7	16.3
-1	.0	1.9	9.8	5.9	.1	.0	.0	237	.4	17.4
-2	.0	2.4	9.8	2.6	.1	.0	.0	199	.1	14.8
-3	.1	3.1	5.3	.9	.0	.0	.0	126	.1	9.4
-4	.0	2.5	2.2	.4	.0	.0	.0	70	.0	5.2
-5	.1	1.1	.9	.4	.0	.0	.0	34	.0	2.5
-6	.0	.3	.4	.1	.0	.0	.0	12	.0	.9
-7/-8	.0	.0	.1	.1	.0	.0	.0	3	.0	.2
-9/-10	.0	.2	.2	.0	.0	.0	.0	6	.0	.4
-11/-13	.0	.0	.0	.1	.0	.0	.0	2	.0	.1
TOTAL	2	167	558	481	113	12	2	1335	41	1294
PCT	.1	12.5	41.8	36.0	8.5	.9	.1	100.0	3.1	96.9

PERIOD: (OVER-ALL) 1963-1971

TABLE 18

PCT FREQ OF WIND SPEED (KTS) AND DIRECTION VERSUS SEA HEIGHTS (FT)

HGT	1-3	4-10	11-21	22-33	34-47	48+	PCT	1-3	4-10	11-21	22-33	34-47	48+	PCT
41	.0	.2	.0	.0	.0	.0	.2	.2	.0	.0	.0	.0	.0	.2
1-2	.0	.7	.2	.0	.0	.0	1.0	.0	1.4	.4	.0	.0	.0	1.7
3-4	.0	.8	.4	.0	.0	.0	1.2	.0	2.5	2.2	.0	.0	.0	4.7
5-6	.0	.2	.4	.0	.0	.0	.5	.0	.3	2.0	.2	.0	.0	2.6
7	.0	.0	.2	.2	.0	.0	.4	.0	.0	.5	.0	.0	.0	.5
8-9	.0	.0	.0	.0	.0	.0	.0	.0	.0	.2	.0	.0	.0	.2
10-11	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.2	.0	.0	.2
12	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
13-16	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
17-19	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
20-22	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
23-25	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
26-32	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
33-40	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
41-48	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
49-60	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
61-70	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
71-86	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
87+	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
TOT PCT	.0	2.0	1.1	.2	.0	.0	3.3	.2	4.2	5.4	.5	.0	.0	10.3

HGT	1-3	4-10	11-21	22-33	34-47	48+	PCT	1-3	4-10	11-21	22-33	34-47	48+	PCT
41	.6	.0	.0	.0	.0	.0	.6	.4	1.2	.0	.0	.0	.0	1.6
1-2	.0	3.6	1.5	.0	.0	.0	5.1	.3	1.6	.7	.0	.0	.0	2.6
3-4	.0	4.2	3.1	.0	.0	.0	7.3	.0	2.5	2.9	.2	.0	.0	5.6
5-6	.0	.0	2.4	.2	.0	.0	2.7	.0	.0	3.3	1.4	.0	.0	4.8
7	.0	.0	.4	.4	.0	.0	.8	.0	.0	.3	.5	.0	.0	.8
8-9	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
10-11	.0	.0	.0	.4	.0	.0	.4	.0	.0	.0	.1	.0	.0	.1
12	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
13-16	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
17-19	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
20-22	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
23-25	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
26-32	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
33-40	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
41-48	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
49-60	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
61-70	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
71-86	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
87+	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
TOT PCT	.6	7.8	7.5	1.0	.0	.0	16.9	.7	5.3	7.2	2.3	.0	.0	15.5

PERIOD: (OVER-ALL) 1963-1971

DECEMBER

TABLE 18 (CONT)

AREA 0014 AUSTRALIAN RIGHT SE  
36.1S 132.1E

PCT FREQ OF WIND SPEED (KTS) AND DIRECTION VERSUS SEA HEIGHTS (FT)

HGT	S							SW							PCT	TOTAL PCT
	1-3	4-10	11-21	22-33	34-47	48+	PCT	1-3	4-10	11-21	22-33	34-47	48+	PCT		
<1	.0	.2	.0	.0	.0	.0	.2	.5	.1	.1	.0	.0	.0	.7		
1-2	.2	3.8	.4	.0	.0	.0	4.3	.2	2.2	1.1	.0	.0	.0	3.6		
3-4	.0	4.3	2.5	.0	.0	.0	6.8	.0	2.0	3.5	.0	.0	.0	5.5		
5-6	.0	.2	3.5	.7	.0	.0	4.4	.0	.0	3.7	.1	.0	.0	3.8		
7	.0	.0	1.1	.2	.0	.0	1.3	.0	.0	1.0	.3	.0	.0	1.3		
8-9	.0	.0	.0	.0	.0	.0	.0	.0	.0	.7	.7	.0	.0	1.4		
10-11	.0	.0	.0	.0	.0	.0	.0	.0	.0	.2	.0	.0	.0	.2		
12	.0	.0	.0	.0	.0	.0	.0	.0	.0	.2	.7	.0	.0	1.0		
13-16	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0		
17-19	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0		
20-22	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0		
23-25	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0		
26-32	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0		
33-40	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0		
41-48	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0		
49-60	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0		
61-70	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0		
71-86	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0		
87+	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0		
TOT PCT	.2	8.6	7.4	.8	.0	.0	17.0	.8	4.3	10.5	1.8	.0	.0	17.4		

HGT	W							NW							PCT	TOTAL PCT
	1-3	4-10	11-21	22-33	34-47	48+	PCT	1-3	4-10	11-21	22-33	34-47	48+	PCT		
<1	.4	.2	.2	.0	.0	.0	.8	.1	.2	.0	.0	.0	.0	.3		
1-2	.0	2.9	1.1	.0	.0	.0	4.0	.0	1.1	.0	.0	.0	.0	1.1		
3-4	.0	.7	1.5	.5	.0	.0	2.7	.0	.2	.8	.0	.0	.0	1.1		
5-6	.0	.4	3.0	.0	.0	.0	3.4	.0	.3	.9	.0	.0	.0	1.2		
7	.0	.0	1.1	.2	.0	.0	1.3	.0	.0	.5	.1	.0	.0	.5		
8-9	.0	.2	.0	.7	.0	.0	1.0	.0	.0	.0	.0	.0	.0	.0		
10-11	.0	.0	.0	.7	.0	.0	.7	.0	.0	.0	.0	.0	.0	.0		
12	.0	.0	.0	.2	.0	.0	.2	.0	.0	.0	.0	.0	.0	.0		
13-16	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0		
17-19	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0		
20-22	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0		
23-25	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0		
26-32	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0		
33-40	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0		
41-48	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0		
49-60	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0		
61-70	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0		
71-86	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0		
87+	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0		
TOT PCT	.4	4.5	6.9	2.4	.0	.0	14.2	.1	1.9	2.2	.1	.0	.0	4.2	98.8	

WIND SPEED (KTS) VS SEA HEIGHT (FT)

HGT	0-3	4-10	11-21	22-33	34-47	48+	PCT	TOT OBS
<1	3.8	2.2	.2	.0	.0	.0	6.2	
1-2	.7	17.3	5.3	.0	.0	.0	23.3	
3-4	.0	17.3	16.8	.7	.0	.0	34.8	
5-6	.0	1.4	19.2	2.6	.0	.0	23.3	
7	.0	.0	5.0	1.9	.0	.0	7.0	
8-9	.0	.2	1.0	1.4	.0	.0	2.6	
10-11	.0	.0	.2	1.4	.0	.0	1.7	
12	.0	.0	.2	1.0	.0	.0	1.2	
13-16	.0	.0	.0	.0	.0	.0	.0	
17-19	.0	.0	.0	.0	.0	.0	.0	
20-22	.0	.0	.0	.0	.0	.0	.0	
23-25	.0	.0	.0	.0	.0	.0	.0	
26-32	.0	.0	.0	.0	.0	.0	.0	
33-40	.0	.0	.0	.0	.0	.0	.0	
41-48	.0	.0	.0	.0	.0	.0	.0	
49-60	.0	.0	.0	.0	.0	.0	.0	
61-70	.0	.0	.0	.0	.0	.0	.0	
71-86	.0	.0	.0	.0	.0	.0	.0	
87+	.0	.0	.0	.0	.0	.0	.0	
TOT PCT	4.6	38.4	48.0	9.1	.0	.0	100.0	417

PERIOD: (OVER-ALL) 1949-1971

TABLE 19

PERCENT FREQUENCY OF WAVE HEIGHT (FT) VS WAVE PERIOD (SECONDS)

PERIOD (SEC)	<1	1-2	3-4	5-6	7	8-9	10-11	12	13-16	17-19	20-22	23-25	26-32	33-40	41-48	49-60	61-70	71-86	87+	TOTAL	MEAN HGT
<6	1.2	6.1	5.7	3.6	1.8	1.3	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	132	4
6-7	.1	.6	4.3	10.1	5.5	3.7	1.5	.9	.1	.0	.1	.0	.0	.0	.0	.0	.0	.0	.0	182	6
8-9	.1	.0	1.2	4.5	7.7	5.4	1.3	1.6	.9	.1	.3	.0	.0	.0	.0	.0	.0	.0	.0	155	8
10-11	.0	.0	.4	2.5	2.5	3.0	2.5	1.5	1.2	.3	.0	.1	.0	.0	.0	.0	.0	.0	.0	95	9
12-13	.0	.0	.0	.1	1.2	.7	1.0	1.2	1.0	.1	.0	.0	.0	.0	.0	.0	.0	.0	.0	37	10
>13	.0	.0	.0	.0	.4	.0	.3	.1	.4	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	9	11
INDET	.9	1.5	1.9	.9	.7	1.0	.7	.7	.6	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	61	6
TOTAL	16	55	91	146	134	102	50	41	29	4	3	1	0	0	0	0	0	0	0	672	7
PCT	2.4	8.2	13.5	21.7	19.9	15.2	7.4	6.1	4.3	.6	.4	.1	.0	.0	.0	.0	.0	.0	.0	100.0	

PERIOD: (PRIMARY) 1902-1972  
(OVER-ALL) 1854-1972

ANNUAL

AREA 0014 AUSTRALIAN BIGHT SF  
36.15 132.1E

TABLE 1

PERCENT FREQUENCY OF WEATHER OCCURRENCE BY WIND DIRECTION

WIND DIR	PRECIPITATION TYPE							OTHER WEATHER PHENOMENA							
	RAIN	RAIN SHWR	DRZL	FRZG PCPN	SNOW	OTHER FRZN PCPN	HAIL	PCPN AT OB TIME	PCPN PAST HOUR	THDR LTNG	FOG PCPN	FOG WD PCPN PAST HR	SMOKE HAZE	SPRAY BLWG	NO DUST SIG WEA
N	2.6	2.1	1.6	.0	.0	.0	.1	6.3	.9	2.5	2.7	.1	1.2	.0	86.7
NE	1.8	2.3	.9	.0	.0	.0	*	5.0	1.6	1.0	2.5	*	.9	.0	89.1
E	2.1	3.1	1.8	.0	.0	.0	.0	7.0	1.5	1.1	1.7	.0	.5	.0	88.5
SE	1.6	3.7	2.6	.0	.0	.0	.0	7.8	1.8	1.1	1.6	*	.4	.0	87.6
S	2.7	5.7	1.8	.0	.0	.0	*	10.1	2.2	.5	1.1	.0	.2	.1	85.9
SW	2.6	6.7	1.7	.0	.0	.0	.1	11.1	3.6	.9	.8	.0	.2	*	83.8
W	3.0	7.2	2.1	.0	.0	.0	.2	12.5	3.7	1.0	1.0	.0	.5	.0	81.4
NW	2.4	3.9	1.4	.0	.0	.0	.1	7.6	1.8	2.0	1.0	.1	1.1	.0	86.6
VAR	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
CALM	3.0	.0	.3	.0	.0	.0	.0	3.3	2.8	.9	4.2	.0	1.7	.0	87.2
TOT PCT	2.5	4.6	1.7	.0	.0	.0	.1	8.8	2.3	1.2	1.3	*	.6	*	85.9
TOT OBS:	18492														

TABLE 2

PERCENT FREQUENCY OF WEATHER OCCURRENCE BY HOUR

HOUR (GMT)	PRECIPITATION TYPE							OTHER WEATHER PHENOMENA							
	RAIN	RAIN SHWR	DRZL	FRZG PCPN	SNOW	OTHER FRZN PCPN	HAIL	PCPN AT OB TIME	PCPN PAST HOUR	THDR LTNG	FOG PCPN	FOG WD PCPN PAST HR	SMOKE HAZE	SPRAY BLWG	NO DUST SIG WEA
00003	2.2	4.9	1.4	.0	.0	.0	.2	8.7	1.9	.3	1.4	*	.7	*	86.9
06009	2.2	4.0	1.3	.0	.0	.0	.1	7.5	2.6	.2	1.1	.0	.8	.0	87.9
12015	2.8	4.9	1.9	.0	.0	.0	.0	9.5	2.0	2.1	1.7	.0	.5	.0	84.5
18021	3.0	4.2	2.4	.0	.0	.0	.1	9.6	2.8	2.6	1.2	.1	.3	.0	83.9
TOT PCT	2.5	4.5	1.7	.0	.0	.0	.1	8.8	2.3	1.2	1.4	*	.6	*	85.9
TOT OBS:	18893														

TABLE 3

PERCENTAGE FREQUENCY OF WIND DIRECTION BY SPEED AND BY HOUR

WIND DIR	WIND SPEED (KNOTS)							TOTAL OBS	PCT FREQ	MEAN SPD	HOUR (GMT)							
	0-3	4-10	11-21	22-33	34-47	48+					00	03	06	09	12	15	18	21
N	.5	4.0	4.9	1.6	.2	*		11.2	12.9		11.7	12.5	11.3	8.5	9.9	10.6	11.3	11.3
NE	.5	3.8	3.8	.7	*	*		8.8	12.0		9.1	8.9	8.7	13.7	8.5	8.5	8.9	16.2
E	.6	4.4	3.8	.4	*	.0		9.2	11.2		9.1	9.4	8.7	10.6	9.0	9.7	14.3	
SE	.5	4.4	4.1	.7	.1	*		9.8	11.9		9.4	10.0	10.1	13.2	10.3	10.6	9.2	9.6
S	.6	5.5	5.6	1.7	.2	*		13.6	13.6		13.1	12.6	14.3	10.2	14.7	13.2	13.3	11.8
SW	.5	5.5	7.4	3.2	.8	*		17.6	15.7		17.2	17.3	17.4	23.9	18.3	18.1	17.2	15.4
W	.6	4.9	7.4	3.7	1.0	*		17.7	16.1		18.5	16.4	18.0	8.8	17.5	16.0	18.2	13.4
NW	.3	3.7	4.7	1.7	.3	*		10.7	13.7		10.8	11.1	10.7	11.2	10.2	11.1	10.7	4.9
VAR	.0	.0	.0	.0	.0	.0		.0	.0		.0	.0	.0	.0	.0	.0	.0	.0
CALM	1.4							.2			1.2	1.7	.8	.0	1.5	1.9	1.7	3.0
TOT OBS							26679		13.8		5499	3544	5556	85	5094	2038	4780	83
TOT PCT	5.5	36.3	41.6	13.7	2.7	.1	100.0				100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0

TABLE 3A

WIND DIR	WIND SPEED (KNOTS)					TOTAL OBS	PCT FREQ	MEAN SPD	HOUR (GMT)			
	0-6	7-16	17-27	28-40	41+				00	03	09	15
N	2.0	5.3	3.1	.6	*		11.2	12.9	12.0	11.2	10.1	11.0
NE	1.8	4.9	1.9	.2	*		8.8	12.0	9.0	8.8	8.5	9.0
E	2.2	5.3	1.5	.1	*		9.2	11.2	9.2	8.7	9.3	9.7
SE	2.1	5.6	1.9	.3	*		9.8	11.9	9.6	10.1	10.4	9.3
S	2.5	7.0	3.3	.8	.1		13.6	13.6	12.9	14.3	14.3	13.3
SW	2.4	7.8	5.1	2.0	.2		17.6	15.7	17.3	17.5	18.3	17.2
W	2.3	7.3	5.7	2.1	.3		17.7	16.1	17.7	17.9	17.1	18.2
NW	1.7	5.0	3.1	.9	*		10.7	13.7	10.9	10.7	10.5	10.6
VAR	.0	.0	.0	.0	.0		.0	.0	.0	.0	.0	.0
CALM	1.4						.2		1.4	.8	1.6	1.7
TOT OBS						26679		13.8	9043	5641	7192	4863
TOT PCT	18.5	48.3	25.5	7.0	.7	100.0			100.0	100.0	100.0	100.0



PERIOD: (PRIMARY) 1902-1972  
(OVER-ALL) 1854-1972

# ANNUAL

AREA 0014 AUSTRALIAN BIGHT SE  
36.15 132.1E

TABLE 4

## PERCENTAGE FREQUENCY OF WIND SPEED BY HOUR (GMT)

HOUR	CALM	1-3	4-10	WIND SPEED (KNOTS)			48+	MEAN	PCT FREQ	TOTAL OBS
				11-21	22-33	34-47				
00003	1.4	4.7	35.3	42.0	13.9	2.7	.1	13.8	100.0	9043
06009	.8	3.2	35.6	42.4	14.8	3.1	.1	14.4	100.0	5641
12015	1.6	4.2	37.8	40.4	13.1	2.7	.2	13.6	100.0	7132
18021	1.7	4.0	37.1	41.7	12.9	2.4	.1	13.5	100.0	4863
TOT								13.8		26679
PCT	1.4	4.1	36.3	41.6	13.7	2.7	.1		100.0	

TABLE 5

## PCT FREQ OF TOTAL CLOUD AMOUNT (EIGHTHS) BY WIND DIRECTION

WIND DIR	0-2	3-4	5-7	8 & OBSCD	TOTAL OBS	MEAN CLOUD COVER
N	3.3	1.5	3.4	2.3	4.4	
NE	2.9	1.5	2.9	1.9	4.4	
E	2.0	1.4	3.3	2.5	5.1	
SE	1.3	1.3	3.5	3.3	5.7	
S	1.6	2.8	6.0	3.5	5.5	
SW	2.5	4.2	7.1	3.4	5.1	
W	5.7	4.4	6.7	3.7	4.9	
NW	3.2	1.9	3.8	2.0	4.5	
VAR	.0	.0	.0	.0	.0	
CALM	.4	.1	.3	.3	4.1	
TOT OBS					10886	5.0
TOT PCT	21.0	19.1	37.1	22.8	100.0	

TABLE 6

## PERCENTAGE FREQUENCY OF CEILING HEIGHTS (FT, NH >4/8) AND OCCURRENCE OF NH <5/8 BY WIND DIRECTION

	000	150	300	600	1000	2000	3500	5000	6500	8000+	NH <5/8 ANY HGT	TOTAL OBS
	149	299	599	999	1999	3499	4999	6499	7999			
N	*	.0	.2	.7	1.2	.7	.5	.2	.1	.2	6.8	
NE	*	.1	.4	1.3	.7	.5	.2	*	.1	.1	5.8	
E	*	.1	.7	1.6	1.1	.7	.2	.1	.1	.1	4.5	
SE	*	.0	.1	.9	2.1	1.5	.9	.2	.1	.1	3.5	
S	.1	*	.2	1.3	3.0	1.8	1.1	.4	*	*	5.9	
SW	*	*	.2	1.7	3.1	2.0	1.1	.3	.1	*	8.7	
W	.1	*	.2	1.6	3.1	1.6	1.1	.2	*	.1	10.4	
NW	.1	*	.1	.7	1.5	.7	.6	.2	*	.1	6.9	
VAR	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
CALM	*	.0	.0	.1	.2	.1	*	*	*	*	.6	
TOT OBS											10886	
TOT PCT	.3	.1	1.2	8.1	17.2	10.1	6.4	2.0	.5	.9	53.3	100.0

TABLE 7

## CUMULATIVE PCT FREQ OF SIMULTANEOUS OCCURRENCE OF CEILING HEIGHT (NH >4/8) AND VSBY (NM)

CEILING (FEET)	VSBY (NM)							
	>10	>5	>2	>1	>1/2	>1/4	>50YD	>0
>6500	1.1	1.3	1.4	1.4	1.4	1.4	1.4	1.4
>4000	2.8	3.3	3.4	3.4	3.4	3.4	3.4	3.4
>3500	8.4	9.7	9.8	9.8	9.8	9.8	9.8	9.8
>2000	17.4	19.8	20.0	20.0	20.0	20.0	20.0	20.0
>1000	31.9	36.7	37.2	37.2	37.2	37.2	37.2	37.2
>600	37.5	44.5	45.1	45.2	45.3	45.3	45.3	45.3
>300	38.0	45.5	46.3	46.4	46.4	46.4	46.4	46.4
>150	38.1	45.6	46.4	46.5	46.5	46.5	46.5	46.5
>0	38.1	45.7	46.5	46.7	46.7	46.8	46.8	46.8

TOTAL NUMBER OF OBS: 11072

PCT FREQ NH <5/8: 53.2

TABLE 7A

## PERCENTAGE FREQ OF LOW CLOUDS (EIGHTHS)

0	1	2	3	4	5	6	7	8 OBSCD	TOTAL OBS
10.1	9.6	10.8	11.6	10.1	7.9	10.0	11.2	18.6	.1 12168

PERIOD: (PRIMARY) 1902-1972  
(OVER-ALL) 1854-1972

ANNUAL

AREA 0014 AUSTRALIAN BIGHT SE  
36.15 132.1E

TABLE 8

PERCENT FREQ OF WIND DIRECTION VS OCCURRENCE OR NON-OCCURRENCE OF  
PRECIPITATION WITH VARYING VALUES OF VISIBILITY

VSBY (NM)		N	NE	E	SE	S	SW	W	NW	VAR	CALM	PCT	TOTAL OBS
<1/2	PCP	*	.0	.0	*	.0	.0	.0	.0	.0	.0	*	
	NO PCP	*	*	*	*	*	*	*	*	.0	*	.2	
	TOT %	*	*	*	*	*	*	*	*	.0	*	.2	
1/2<1	PCP	*	*	*	*	*	*	*	*	.0	.0	.2	
	NO PCP	.1	.2	.1	.1	.1	*	.1	.1	.0	*	.7	
	TOT %	.1	.2	.2	.1	.1	.1	.1	.1	.0	*	.9	
1<2	PCP	*	*	.0	*	*	*	*	*	.0	.0	.1	
	NO PCP	.1	*	*	*	*	*	.1	.1	.0	*	.4	
	TOT %	.1	*	*	*	*	*	.1	.1	.0	*	.4	
2<5	PCP	*	*	*	*	.1	*	.1	.1	.0	.0	.4	
	NO PCP	*	*	*	*	*	.1	.1	*	.0	*	.4	
	TOT %	.1	.1	.1	.1	.1	.1	.2	.1	.0	*	.8	
5<10	PCP	.6	.3	.3	.4	.9	1.3	1.5	.6	.0	*	6.0	
	NO PCP	3.8	2.9	3.1	3.5	4.3	5.1	5.0	3.1	.0	.1	31.0	
	TOT %	4.4	3.2	3.4	3.9	5.2	6.4	6.5	3.7	.0	.2	36.9	
10+	PCP	.1	.1	.1	.1	.3	.5	.7	.2	.0	*	2.2	
	NO PCP	6.5	5.6	5.5	5.5	8.1	10.0	10.3	6.4	.0	.7	58.5	
	TOT %	6.7	5.7	5.7	5.6	8.4	10.5	10.9	6.5	.0	.7	60.7	
TOT OBS													18441
TOT PCT													11.4 9.2 9.3 9.8 13.9 17.1 17.8 10.5 .0 .9 100.0

TABLE 9

PERCENT FREQ OF WIND DIRECTION VS WIND SPEED  
WITH VARYING VALUES OF VISIBILITY

VSBY (NM)	SPD KTS	N	NE	E	SE	S	SW	W	NW	VAR	CALM	PCT	TOTAL OBS
<1/2	0-3	*	*	.0	.0	*	*	*	.0	.0	*	*	
	4-10	*	*	.0	*	*	.0	*	*	.0	*	.1	
	11-21	*	*	*	*	.0	*	*	.0	.0	*	*	
	22+	*.0	.0	*	.0	.0	.0	.0	.0	.0	*	*	
	TOT %	*	*	*	*	*	*	*	*	.0	*	.2	
1/2<1	0-3	*	*	.0	.0	.0	.0	.0	.0	.0	*	*	
	4-10	*.1	.1	*	*	*	*	*	*	.0	*	.3	
	11-21	.1	*.1	*	*	*	*	*	*	.0	*	.3	
	22+	*	*	*	*	*	*	.1	*	.0	*	.2	
	TOT %	.1	.2	.1	.1	.1	.1	.1	.1	.0	*	.8	
1<2	0-3	.0	*	.0	*	*	.0	.0	.0	.0	*	*	
	4-10	*	*	*	*	*	*	*	*	.0	*	.1	
	11-21	*	*	*	*	*	*	*	*	.0	*	.2	
	22+	*	*	.0	*	*	*	*	*	.0	*	.1	
	TOT %	.1	*	*	*	*	*	.1	.1	.0	*	.4	
2<5	0-3	*	*	.0	.0	.0	.0	.0	.0	.0	*	*	
	4-10	*	*	*	*	*	*	*	*	.0	*	.2	
	11-21	*	*	*	*	.1	.1	.1	*	.0	*	.4	
	22+	*	*	*	*	*	.1	.1	*	.0	*	.3	
	TOT %	.1	.1	.1	.1	.1	.2	.2	.1	.0	*	.9	
5<10	0-3	.2	.2	.2	.2	.1	.1	.1	.1	.0	.2	1.5	
	4-10	1.3	1.2	1.5	1.5	1.7	1.6	1.4	1.0	.0		11.3	
	11-21	1.9	1.2	1.3	1.6	2.2	2.3	1.5	*	.0		14.7	
	22+	.8	.3	.2	.3	.8	1.8	2.2	.8	.0		7.2	
	TOT %	4.2	3.0	3.2	3.7	4.9	6.0	6.1	3.5	.0	.2	34.7	
10+	0-3	.3	.2	.3	.3	.4	.3	.3	.2	.0	.9	3.1	
	4-10	2.6	2.6	2.9	2.9	3.8	3.6	3.4	2.4	.0		24.2	
	11-21	3.0	2.6	2.5	2.5	3.6	4.8	5.3	3.1	.0		27.3	
	22+	.9	.4	.2	.4	1.0	2.2	2.3	1.0	.0		8.4	
	TOT %	6.8	5.8	5.9	6.1	8.7	10.8	11.2	6.7	.0	.9	62.9	
TOT OBS													20043
TOT PCT													11.2 9.0 9.3 10.0 13.9 17.1 17.7 10.5 .0 1.1 100.0

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NAVAL WEATHER SERVICE DETACHMENT ASHEVILLE N C F/G 4/2  
SUMMARY OF SYNOPTIC METEOROLOGICAL OBSERVATIONS (SSMO). AUSTRAL--ETC(U)  
SEP 77

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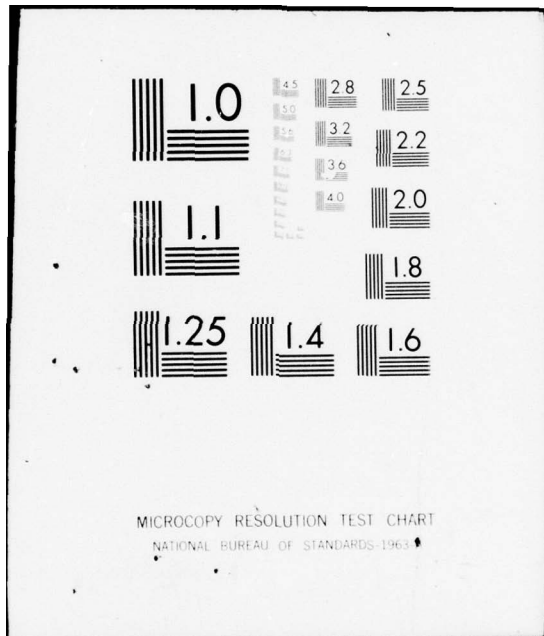
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PERIOD: (PRIMARY) 1902-1972  
(OVER-ALL) 1854-1972AREA 0014 AUSTRALIAN RIGHT SE  
36.15 132.1E

TABLE 10

PERCENT FREQUENCY OF CEILING HEIGHTS (FEET, NH >4/8) AND  
OCCURRENCE OF NH <5/8 BY HOUR

HOURL (GMT)	000 149	150 299	300 599	600 999	1000 1999	2000 3499	3500 4999	5000 6499	6500 7999	8000+	TOTAL	NH <5/8 ANY HGT	TOTAL OBS
00003	.3	.1	1.1	8.8	17.9	10.5	6.7	2.1	.4	1.0	48.9	51.1	3198
06009	.2	.1	1.1	6.2	16.3	10.0	6.4	2.1	.6	.8	43.8	56.2	3212
12015	.3	*	.9	8.0	14.7	8.8	5.6	1.8	.6	.9	41.6	58.4	2674
18021	.3	.1	1.3	8.1	17.0	9.9	6.1	1.7	.4	.6	45.5	54.5	2459
TOT													11543
PCT	.3	.1	1.1	7.7	16.5	9.8	6.2	1.9	.5	.8	45.0	55.0	100.0

TABLE 11

PERCENT FREQUENCY VSBY (NM) BY HOUR

HOURL (GMT)	<1/2	1/2<1	1<2	2<5	5<10	10+	TOTAL OBS
00003	.2	.8	.5	.9	39.0	58.7	6205
06009	.2	.7	.4	1.0	29.0	68.7	4797
12015	.2	1.0	.4	.8	39.3	58.1	5452
18021	.1	.8	.4	1.0	30.0	67.6	4031
TOT							20485
PCT	.2	.8	.4	.9	35.0	62.7	100.0

TABLE 12

CUMULATIVE PCT FREQ OF RANGES OF VSBY (NM) AND/OR  
CEILING HGT (FEET, NH >4/8), BY HOUR

HOURL (GMT)	<150 <50YD	<600 <1	<1000 <5	1000+ AND 5+	NH <5/8 AND 5+	TOTAL OBS
00003	.3	1.7	11.4	39.3	49.3	3089
06009	.2	1.6	8.6	36.8	54.6	3100
12015	.4	1.4	10.6	33.7	55.8	2524
18021	.3	1.8	10.9	36.6	52.4	2359
TOT						11072
PCT	.3	1.6	10.3	36.7	52.9	100.0

TABLE 13

PERCENT FREQUENCY OF RELATIVE HUMIDITY BY TEMP

TEMP F	0-29	30-39	40-49	50-59	60-69	70-79	80-89	90-100	TOTAL OBS	PCT FREQ
80/84	.0	*	*	.0	.0	.0	.0	.0	*	*
75/79	.0	.0	.0	*	*	*	.0	.0	*	*
70/74	.0	.0	.0	*	.2	.3	.3	.1	.9	*
65/69	.0	*	*	.2	1.1	2.8	3.2	1.9	9.2	*
60/64	.0	*	.1	1.1	5.7	10.6	11.7	5.0	34.2	*
55/59	.0	.0	.1	1.4	7.2	12.8	13.7	5.3	40.4	*
50/54	.0	.0	*	.4	4.0	3.8	4.5	1.5	14.6	*
45/49	.0	.0	.0	*	.2	.2	.2	.1	.7	*
40/44	.0	.0	.0	.0	.0	*	.0	.0	*	*
TOTAL									13580	100.0
PCT	.0	*	.2	3.5	18.3	30.5	33.6	13.8		

TABLE 14

PERCENT FREQUENCY OF WIND DIRECTION BY TEMP

N	NE	E	SE	S	SW	W	NW	VAR	CALM
.0	.0	.0	.0	*	*	*	.0	.0	.0
.0	*	*	.0	.0	.0	.0	.0	.0	.0
.2	.1	.2	.1	*	.1	.1	.1	.0	*
1.4	1.5	1.4	1.0	.9	.8	1.2	.9	.0	.1
4.6	3.9	3.6	4.0	4.2	4.8	5.2	3.5	.0	.4
4.5	3.1	2.9	3.2	5.6	7.2	8.4	5.2	.0	.3
.5	.5	.7	1.3	3.1	4.5	3.0	.8	.0	.2
*	*	*	*	.2	.3	.2	*	.0	.0
.0	.0	.0	.0	*	.0	.0	.0	.0	.0
11.3	9.2	8.7	9.6	14.1	17.6	18.0	10.5	.0	1.0

TABLE 15

MEANS, EXTREMES AND PERCENTILES OF TEMP (DEG F) BY HOUR

HOURL (GMT)	MAX	99%	95%	50%	5%	1%	MIN	MEAN	TOTAL OBS
00003	79	68	65	60	54	52	43	59.8	8868
06009	84	68	66	60	55	52	45	60.3	5592
12015	75	65	63	58	54	52	45	58.5	7185
18021	79	65	63	58	53	51	45	57.9	4921
TOT	84	67	65	59	54	52	43	59.2	26566

TABLE 16

PERCENT FREQUENCY OF RELATIVE HUMIDITY BY HOUR

HOURL (GMT)	0-29	30-59	60-69	70-79	80-89	90-100	MEAN	TOTAL OBS
00003	.0	4.1	19.3	30.7	33.7	12.1	78	3992
06009	.0	5.4	22.0	33.1	30.0	9.5	76	3526
12015	.0	2.3	15.9	30.4	34.1	17.3	80	3447
18021	.0	3.3	15.2	27.4	36.7	17.4	80	2882
TOT	0	532	2525	4232	4661	1917	78	13847



## ANNUAL

PERIOD: (PRIMARY) 1902-1972  
(OVER-ALL) 1854-1972

TABLE 17

AREA 0014 AUSTRALIAN BIGHT SE  
36.15 132.1EPCT FREQ OF AIR TEMPERATURE (DEG F) AND THE OCCURRENCE OF FOG (WITHOUT PRECIPITATION)  
VS AIR-SEA TEMPERATURE DIFFERENCE (DEG F)

AIR-SEA TMP DIF	41 44	45 48	49 52	53 56	57 60	61 64	65 68	69 72	73 76	77 80	81 84	TOT	% FOG	% NO FOG
14/16	.0	.0	.0	.0	.0	.0	.0	.0	*	*	.0	2	.0	*
11/13	.0	.0	.0	*	*	*	*	*	*	*	.0	14	.0	.1
9/10	.0	.0	.0	.0	*	*	*	.1	*	.0	.0	28	.0	.2
7/8	.0	.0	.0	*	*	.1	.2	.1	*	*	*	85	*	.5
6	.0	.0	.0	*	*	.2	.2	.1	*	.0	.0	97	.0	.6
5	.0	.0	.0	*	.2	.5	.3	.2	*	.0	.0	209	*	1.3
4	.0	.0	.0	.1	.5	.9	.9	.3	*	.0	.0	421	.1	2.6
3	.0	.0	*	.1	1.2	1.6	1.1	.3	.0	.0	.0	691	.1	4.2
2	.0	.0	*	.5	2.6	2.4	1.5	.2	.0	.0	.0	1154	.2	7.0
1	.0	*	*	1.1	4.3	3.7	1.6	.1	.0	.0	.0	1759	.2	10.7
0	.0	.0	.1	2.6	5.0	4.9	1.5	.1	.0	.0	.0	2455	.3	14.9
-1	.0	.0	.1	4.1	5.6	4.4	.9	*	.0	.0	.0	2452	.2	14.9
-2	.0	.0	.4	4.2	4.7	3.4	.4	*	.0	.0	.0	2131	.1	13.0
-3	.0	*	.8	4.2	3.6	1.8	.1	*	.0	.0	.0	1702	.1	10.4
-4	.0	*	1.1	2.9	2.9	.8	*	.0	.0	.0	.0	1252	.1	7.6
-5	.0	*	1.2	2.0	1.5	.5	*	*	.0	.0	.0	843	.1	5.2
-6	.0	.1	.8	.9	.6	.1	.0	.0	.0	.0	.0	402	*	2.5
-7/-8	.0	.1	.8	.7	.4	.1	.0	.0	.0	.0	.0	347	*	2.1
-9/-10	*	*	.2	.2	.1	*	.0	.0	.0	.0	.0	91	*	.6
-11/-13	*	*	.1	*	*	*	.0	.0	.0	.0	.0	29	.0	.2
-14/-16	*	*	*	*	.0	.0	.0	.0	.0	.0	.0	7	.0	*
TOTAL												16171		
PCT	*	.3	5.7	23.8	34.3	25.4	8.8	1.4	.2	*	*	100.0	1.5	98.5

PERIOD: (OVER-ALL) 1963-1977

TABLE 18

PCT FREQ OF WIND SPEED (KTS) AND DIRECTION VERSUS SEA HEIGHTS (FT)

HGT	1-3	4-10	11-21	22-33	34-47	48+	PCT	1-3	4-10	11-21	22-33	34-47	48+	PCT
<1	.1	.3	*	.0	.0	.0	.5	.1	.4	.0	.0	.0	.0	.6
1-2	.1	2.2	.6	.0	.0	.0	2.8	.1	2.0	.5	.0	.0	.0	2.7
3-4	.0	1.3	2.0	.1	.0	.0	3.4	.0	1.3	1.8	.1	.0	.0	3.2
5-6	.0	.3	1.6	.3	*	.0	2.2	*	.3	1.7	.2	*	.0	2.2
7	*	*	.6	.5	*	.0	1.2	.0	*	.5	.1	*	.0	.6
8-9	.0	.0	.2	.3	*	.0	.5	.0	.0	.1	.1	.0	.0	.2
10-11	.0	.0	*	.2	*	.0	.2	.0	.0	*	.1	*	.0	.1
12	.0	.0	.0	.2	*	.0	.2	.0	.0	*	*	.0	.0	*
13-16	.0	.0	.0	*	*	.0	.1	.0	.0	.0	*	*	.0	*
17-19	.0	.0	.0	*	.0	.0	*	.0	.0	.0	.0	.0	.0	.0
20-22	.0	.0	.0	.0	*	.0	*	.0	.0	.0	.0	*	.0	*
23-25	.0	.0	.0	.0	*	.0	*	.0	.0	.0	.0	.0	.0	.0
26-32	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
33-40	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
41-48	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
49-60	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
61-70	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
71-86	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
87+	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
TOT PCT	.2	4.1	5.1	1.6	.2	.0	11.2	.2	4.1	4.7	.6	.1	.0	9.7

HGT	1-3	4-10	11-21	22-33	34-47	48+	PCT	1-3	4-10	11-21	22-33	34-47	48+	PCT
<1	.1	.5	*	.0	.0	.0	.7	.1	.4	*	.0	.0	.0	.5
1-2	.1	1.9	.7	.0	.0	.0	2.6	.1	1.9	.5	.0	.0	.0	2.5
3-4	.0	1.6	1.7	.0	.0	.0	3.3	*	1.6	1.6	*	.0	.0	3.2
5-6	.0	.1	1.3	.2	.0	.0	1.6	.0	.3	1.5	.3	.0	.0	2.0
7	.0	.0	.4	.2	.0	.0	.6	.0	*	.3	.2	.0	.0	.5
8-9	.0	.0	*	.1	.0	.0	.1	.0	.0	.2	.1	.0	.0	.2
10-11	.0	.0	.0	*	*	.0	.1	.0	.0	*	.1	*	.0	.1
12	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	*	*	.0	*
13-16	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	*	*	.0	*
17-19	.0	.0	.0	*	*	.0	*	.0	.0	.0	.0	.0	.0	.0
20-22	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
23-25	.0	.0	.0	.0	*	.0	*	.0	.0	.0	.0	*	.0	*
26-32	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
33-40	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
41-48	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
49-60	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
61-70	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
71-86	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
87+	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
TOT PCT	.2	4.1	4.2	.5	*	.0	9.0	.2	4.2	4.0	.6	.1	.0	9.1

PERIOD: (OVER-ALL) 1963-1977

ANNUAL

AREA 0014 AUSTRALIAN RIGHT SE  
36.15 192.1E

TABLE 18 (CONT)

PCT FREQ OF WIND SPEED (KTS) AND DIRECTION VERSUS SEA HEIGHTS (FT)

HGT	1-3	4-10	11-21	22-33	34-47	48+	PCT	1-3	4-10	11-21	22-33	34-47	48+	PCT
<1	.2	.4	*	.0	.0	.0	.6	.2	.4	*	.0	.0	.0	.6
1-2	.2	2.7	.3	.0	.0	.0	3.2	.1	2.2	.7	.0	.0	.0	2.9
3-4	*	2.2	2.2	.1	.0	.0	4.4	*	1.9	2.6	.2	.0	.0	4.7
5-6	.0	.3	1.9	.3	.0	.0	2.6	.0	.5	2.6	.4	.2	.0	3.7
7	*	.1	.8	.3	*	.0	1.3	*	.1	.9	.8	.1	.0	1.9
8-9	.0	*	.2	.4	*	.0	.7	.0	*	.2	.6	.2	.0	1.0
10-11	.0	.0	.1	.1	*	.0	.2	.0	*	.2	.3	.1	.0	.6
12	.0	.0	.0	.1	.1	.0	.1	.0	.0	.1	.2	.1	.0	.4
13-16	.0	.0	.0	.1	*	.0	.1	.0	.0	.1	.2	.1	.0	.4
17-19	.0	.0	.0	.0	*	.0	.1	.0	.0	.0	*	.1	.0	.1
20-22	.0	.0	.0	.0	*	.0	*	.0	.0	*	*	*	.0	*
23-25	.0	.0	.0	.0	.0	.0	*	.0	.0	*	*	*	*	.1
26-32	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	*	*	*	*
33-40	.0	.0	.0	.0	.0	*	*	.0	.0	.0	.0	.0	*	*
41-48	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
49-60	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
61-70	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
71-86	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
87+	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
TOT PCT	.4	5.8	5.5	1.4	.2	*	13.3	.3	5.1	7.4	2.8	.9	*	16.5

HGT	1-3	4-10	11-21	22-33	34-47	48+	PCT	1-3	4-10	11-21	22-33	34-47	48+	PCT	TOTAL PCT
<1	.2	.6	*	.0	.0	.0	.8	.1	.2	*	.0	.0	.0	.3	
1-2	.1	2.5	.7	.0	.0	.0	3.3	.1	2.1	.4	.0	.0	.0	2.6	
3-4	.0	1.7	2.8	.3	.0	.0	4.8	*	1.1	1.5	.2	.0	.0	2.8	
5-6	.0	.3	3.3	.8	*	.0	4.5	.0	.1	1.8	.5	*	.0	2.5	
7	*	.1	1.3	.8	.1	.0	2.3	*	*	.8	.5	*	.0	1.3	
8-9	.0	*	.3	.6	.2	.0	1.2	.0	.0	.1	.2	*	.0	.4	
10-11	.0	*	.1	.6	.1	.0	.8	.0	.0	.1	.2	.1	.0	.4	
12	*	*	.2	.1	.0	.0	.3	*	*	*	.1	*	.0	.2	
13-16	.0	*	*	.3	.1	.0	.4	.0	.0	*	.2	.1	.0	.2	
17-19	.0	*	.0	*	.1	.0	.1	.0	*	.0	*	.0	.0	*	
20-22	.0	.0	*	*	.1	.0	.2	.0	.0	.0	.0	*	.0	*	
23-25	.0	.0	*	.1	.1	*	.1	.0	.0	.0	.0	*	.0	*	
26-32	.0	.0	.0	.0	*	.0	*	.0	.0	.0	.0	.0	.0	.0	
33-40	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
41-48	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
49-60	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
61-70	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
71-86	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
87+	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
TOT PCT	.4	5.3	8.7	3.7	.9	*	19.1	.2	3.6	4.8	1.9	.2	.0	10.7	98.4

WIND SPEED (KTS) VS SEA HEIGHT (FT)

HGT	0-3	4-10	11-21	22-33	34-47	48+	PCT	TOT OBS
<1	3.3	3.3	.1	.0	.0	.0	6.7	
1-2	1.0	17.5	4.3	.0	.0	.0	22.8	
3-4	.1	12.4	16.0	1.0	.0	.0	29.5	
5-6	*	2.2	15.6	2.9	.3	.0	21.0	
7	.1	.3	5.6	3.5	.2	.0	9.7	
8-9	.0	.1	1.4	2.3	.5	.0	4.3	
10-11	.0	*	.5	1.6	.4	.0	2.6	
12	*	*	.1	.8	.3	.0	1.2	
13-16	.0	*	.1	.8	.4	.0	1.3	
17-19	.0	*	.0	.1	.2	.0	.3	
20-22	.0	.0	*	.1	.2	.0	.3	
23-25	.0	.0	*	.1	.1	*	.3	
26-32	.0	.0	.0	*	*	*	.1	
33-40	.0	.0	.0	.0	.0	*	*	
41-48	.0	.0	.0	.0	.0	.0	.0	
49-60	.0	.0	.0	.0	.0	.0	.0	
61-70	.0	.0	.0	.0	.0	.0	.0	
71-86	.0	.0	.0	.0	.0	.0	.0	
87+	.0	.0	.0	.0	.0	.0	.0	
TOT PCT	4.5	36.0	43.9	13.0	2.6	.1	100.0	6155

PERIOD: (OVER-ALL) 1949-1970

TABLE 19

PERCENT FREQUENCY OF WAVE HEIGHT (FT) VS WAVE PERIOD (SECONDS)

PERIOD (SEC)	<1	1-2	3-4	5-6	7	8-9	10-11	12	13-16	17-19	20-22	23-25	26-32	33-40	41-48	49-60	61-70	71-86	87+	TOTAL	MEAN HGT
<6	.8	4.1	5.5	3.5	1.9	.7	.5	.2	.2	*	.0	.0	.0	.0	.0	.0	.0	.0	.0	1565	4
6-7	*	.4	3.2	6.7	5.7	2.8	2.0	.9	1.0	.2	.1	*	*	*	.0	.0	.0	.0	.0	2107	7
8-9	*	.1	1.3	4.3	5.6	4.8	2.6	1.6	2.0	.5	.3	.2	.1	*	.0	.0	.0	.0	.0	2134	8
10-11	.0	.1	.6	1.8	3.2	2.8	2.7	1.6	1.8	.5	.3	.1	.1	.0	.0	.0	.0	.0	.0	1440	9
12-13	.0	.0	.3	.5	1.1	1.3	1.2	1.1	1.4	.4	.3	.2	.1	.0	.0	.0	.0	.0	.0	713	11
>13	.0	.0	.0	.2	.5	.4	.4	.4	.8	.2	.3	.2	.1	*	.0	.0	.0	.0	.0	309	12
INDET	.6	1.1	1.7	1.2	1.6	1.1	.9	.4	.6	.1	*	*	*	.0	.0	.0	.0	.0	.0	865	6
TOTAL																				9129	8
PCT	1.5	5.8	12.6	18.4	19.4	13.7	10.1	6.2	7.8	2.0	1.4	.7	.4	*	.0	.0	.0	.0	.0	100.0	

PERIOD: (PRIMARY) 1902-1972  
(OVER-ALL) 1854-1972

TABLE 20

AREA 0014 AUSTRALIAN BIGHT SE  
36.1S 132.1E

PERCENT FREQUENCY OF OCCURRENCE OF SEA TEMP (DEG F) BY MONTH

SEA TMP DEG F	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC	ANN	PCT
96+	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	0	.0
95/96	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	0	.0
93/94	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	0	.0
91/92	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	0	.0
89/90	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	0	.0
87/88	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	0	.0
85/86	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	0	.0
83/84	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	0	.0
81/82	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	0	.0
79/80	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	0	.0
77/78	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	0	.0
75/76	.1	*	*	.0	.0	.0	.0	.0	.0	.0	.0	.0	3	*
73/74	.1	.1	.0	.0	.0	.0	.0	.0	.0	.0	.0	.1	6	*
71/72	.1	.3	.3	.0	.0	.0	.0	.0	.0	.0	.0	.0	16	.1
69/70	.7	2.1	1.9	.2	.0	.1	.0	.0	.0	.0	.1	.2	113	.5
67/68	3.2	10.0	11.2	2.1	.5	.2	.2	.2	.0	.0	.3	.5	613	2.6
65/66	16.2	27.1	25.6	12.8	3.5	.8	.4	.1	.1	.1	.3	2.9	1928	8.0
63/64	38.7	39.7	34.6	34.2	17.4	6.0	.8	.6	.1	1.0	3.2	17.3	4097	17.1
61/62	29.2	16.5	19.6	31.5	31.5	17.7	4.5	2.4	.9	2.9	9.4	31.3	4085	17.0
59/60	9.8	3.5	5.5	15.3	31.5	30.3	22.9	10.8	10.5	16.4	32.5	30.3	4333	18.1
57/58	1.7	.6	.5	2.6	12.7	30.2	37.7	37.0	36.4	38.1	33.7	13.5	4643	19.4
55/56	.2	*	.4	1.0	2.1	12.1	27.0	34.3	38.1	31.4	17.9	3.4	3144	13.1
53/54	.2	*	.3	.1	.6	1.7	4.9	12.0	11.1	7.7	2.5	.4	776	3.2
51/52	.0	.0	.1	*	*	.7	1.1	2.1	2.5	2.4	.3	*	176	.7
49/50	.0	.0	.0	.2	.1	.2	.1	.3	.5	.1	.0	.0	28	.1
47/48	.0	.0	.0	.0	.0	.1	.2	.1	.0	.0	.0	.0	7	*
45/46	.0	.0	.0	.0	.0	.1	.1	.0	.0	.0	.0	.0	3	*
43/44	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	0	.0
41/42	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	0	.0
39/40	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	0	.0
37/38	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	0	.0
35/36	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	0	.0
33/34	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	0	.0
31/32	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	0	.0
29/30	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	0	.0
27/28	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	0	.0
<27	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	0	.0
TOTAL	1946	2182	2254	2191	2124	1830	1671	1768	1746	2243	1932	2084	23971	100.0
MEAN	62.9	64.1	63.8	62.3	60.6	58.8	57.3	56.5	56.3	56.9	58.2	60.6	59.8	

TABLE 21

PRESSURE (MB)

AVERAGE BY HOUR (GMT)

MO	0000	0300	0600	0900	1200	1500	1800	2100	MEAN	TOTAL OBS
JAN	1016	1015	1015	1017	1016	1013	1014	1010	1015	1266
FEB	1017	1016	1016	1017	1017	1015	1016	1017	1016	1277
MAR	1018	1019	1018	1015	1018	1018	1017	1017	1018	1565
APR	1020	1019	1019	1019	1020	1019	1018	1014	1019	1468
MAY	1018	1018	1017	1022	1018	1018	1018	1019	1018	1592
JUN	1018	1020	1017	1018	1020	1017	1019	1019	1018	1362
JUL	1017	1017	1016	1019	1018	1014	1017	1017	1017	1242
AUG	1017	1016	1016	1018	1017	1017	1017	1019	1017	1277
SEP	1018	1015	1016	1013	1018	1017	1016	1013	1017	1303
OCT	1016	1014	1015	1013	1016	1015	1014	1014	1015	1494
NOV	1015	1016	1015	1015	1016	1018	1015	1014	1016	1349
DEC	1015	1015	1015	1011	1015	1013	1013	1014	1015	1331
ANN	1017	1017	1016	1016	1017	1016	1016	1014	1017	16526
OBS	3902	1247	3915	83	3496	565	3232	86		

PERCENTILES

MO	MIN	1%	5%	25%	50%	75%	95%	99%	MAX
JAN	991	996	1003	1011	1016	1020	1025	1027	1030
FEB	996	1000	1006	1013	1017	1020	1025	1029	1035
MAR	991	999	1007	1014	1018	1023	1028	1031	1035
APR	993	1002	1006	1015	1020	1024	1031	1033	1037
MAY	988	997	1003	1013	1018	1023	1030	1034	1037
JUN	983	992	1001	1013	1020	1025	1032	1035	1038
JUL	978	991	1000	1010	1017	1024	1031	1034	1039
AUG	986	992	1000	1010	1017	1024	1033	1037	1041
SEP	988	993	1001	1012	1018	1023	1028	1032	1035
OCT	988	994	1001	1010	1016	1021	1028	1031	1036
NOV	991	995	1003	1010	1016	1021	1027	1030	1032
DEC	986	996	1002	1011	1015	1020	1024	1027	1031

PERIOD: (PRIMARY) 1912-1971  
(OVER-ALL) 1855-1971

JANUARY

AREA 0015 AUSTRALIAN BIGHT SW  
35.55 126.6E

TABLE 1

PERCENT FREQUENCY OF WEATHER OCCURRENCE BY WIND DIRECTION

WIND DIR	PRECIPITATION TYPE							OTHER WEATHER PHENOMENA							
	RAIN	RAIN SHWR	DRIZ	FRIG PCPN	SNOW	OTHER FRZN PCPN	HAIL	PCPN AT DB TIME	PCPN PAST HOUR	THOR LTNG	FOG PCPN	FOG WD PCPN PAST HR	SMOKE HAZE	SPRAY BLWG DUST	NO SIG WEA
N	2.3	.4	.0	.0	.0	.0	.0	2.6	.0	1.1	3.4	.0	1.1	.0	92.5
NE	.5	.4	.4	.0	.0	.0	.0	1.2	.0	2.0	.7	.0	1.7	.0	94.4
E	2.6	.5	.4	.0	.0	.0	.0	3.5	.4	1.6	1.0	.0	.0	.0	94.2
SE	1.7	1.2	3.3	.0	.0	.0	.0	6.1	1.3	1.0	.0	.0	.0	.0	90.3
S	1.1	2.2	1.3	.0	.0	.0	.4	5.0	.0	.4	4.3	.0	.0	.0	91.4
SW	1.5	2.9	.9	.0	.0	.0	.0	5.8	.6	1.2	.6	.0	.0	.0	92.4
W	1.7	4.1	.0	.0	.0	.0	.0	5.6	1.6	.0	1.6	.0	.0	.0	91.3
NW	1.6	2.4	1.6	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
VAR	.0	.0	.0	.0	.0	.0	.0	.0	.0	4.3	.0	.0	.0	.0	95.7
CALM	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
TOT PCT	1.5	1.7	.9	.0	.0	.0	.1	4.2	.4	1.3	1.6	.0	.4	.0	92.5
TOT OBS:	1598														

TABLE 2

PERCENT FREQUENCY OF WEATHER OCCURRENCE BY HOUR

HOUR (GMT)	PRECIPITATION TYPE							OTHER WEATHER PHENOMENA							
	RAIN	RAIN SHWR	DRIZ	FRIG PCPN	SNOW	OTHER FRZN PCPN	HAIL	PCPN AT DB TIME	PCPN PAST HOUR	THOR LTNG	FOG PCPN	FOG WD PCPN PAST HR	SMOKE HAZE	SPRAY BLWG DUST	NO SIG WEA
00003	2.8	1.7	.9	.0	.0	.0	.2	5.6	.2	.6	1.9	.0	1.1	.0	91.1
06009	.8	.8	1.4	.0	.0	.0	.3	3.4	.3	.0	.8	.0	.8	.0	94.6
12015	.4	1.9	.4	.0	.0	.0	.0	2.8	.2	1.5	2.2	.0	.2	.0	93.1
18021	1.6	2.2	1.1	.0	.0	.0	.0	4.9	.8	2.7	1.1	.0	.0	.0	91.0
TOT PCT	1.5	1.7	.9	.0	.0	.0	.1	4.2	.4	1.2	1.6	.0	.5	.0	92.4
TOT OBS:	1646														

TABLE 3

PERCENTAGE FREQUENCY OF WIND DIRECTION BY SPEED AND BY HOUR

WIND DIR	WIND SPEED (KNOTS)							TOTAL OBS	PCT FREQ	MEAN SPD	HOUR (GMT)							
	0-3	4-10	11-21	22-33	34-47	48+					00	03	06	09	12	15	18	21
N	.8	4.0	3.3	.5	.0	.0		8.7	10.5		10.2	9.0	8.0	10.3	7.1	5.1	8.4	14.8
NE	.7	6.4	7.5	1.4	.0	.0		16.1	12.4		17.7	15.7	17.4	14.0	14.5	14.8	17.2	15.8
E	1.0	7.0	5.7	.6	.0	.0		14.4	10.7		13.7	10.4	14.7	12.1	15.7	17.3	16.0	13.4
SE	.9	5.3	3.6	.3	.0	.0		10.1	10.2		9.5	10.0	9.4	14.0	11.3	9.1	11.1	5.3
S	1.0	7.7	7.3	1.0	.2	*		17.2	11.9		17.1	19.4	15.3	15.2	16.7	20.7	16.4	16.2
SW	.7	5.6	8.4	2.2	.4	.1		17.3	14.2		16.9	15.7	18.0	19.9	18.1	18.6	15.2	18.3
W	.4	4.7	4.2	1.2	.2	.1		10.8	13.4		9.0	12.0	13.8	12.1	11.3	9.1	9.4	10.2
NW	.6	1.7	1.3	.2	*	.0		3.7	10.1		4.6	6.5	1.6	1.5	3.3	3.3	3.5	5.1
VAR	.0	.0	.0	.0	.0	.0		.0	.0		.0	.0	.0	.0	.0	.0	.0	.0
CALM	1.8							1.8	.0		1.4	1.4	2.0	.0	2.1	1.9	2.8	1.4
TOT OBS	176	965	939	166	19	5	2270		11.8		432	284	305	136	437	215	319	142
TOT PCT	7.8	42.5	41.4	7.3	.8	.2		100.0			100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0

TABLE 3A

WIND DIR	WIND SPEED (KNOTS)							TOTAL OBS	PCT FREQ	MEAN SPD	HOUR (GMT)				
	0-6	7-16	17-27	28-40	41+						00	03	06	12	18
N	3.0	4.0	1.7	*	.0			8.7	10.5		9.7	8.7	6.4	10.2	
NE	2.9	9.0	3.9	.3	.0			16.1	12.4		16.9	16.3	14.6	16.8	
E	3.2	9.2	1.8	.1	.0			14.4	10.7		12.4	13.9	16.3	15.2	
SE	2.3	6.7	1.0	.1	.0			10.1	10.2		9.7	10.8	10.5	9.3	
S	3.8	9.5	3.4	.4	.1			17.2	11.9		18.0	15.6	18.0	16.3	
SW	2.8	8.7	4.6	1.0	.2			17.3	14.2		16.4	18.5	18.3	16.2	
W	2.5	5.2	2.1	.9	.1			10.8	13.4		10.2	13.3	10.5	9.7	
NW	1.4	1.6	.6	.1	.0			3.7	10.1		5.3	1.5	3.3	4.0	
VAR	.0	.0	.0	.0	.0			.0	.0		.0	.0	.0	.0	
CALM	1.8							1.8	.0		1.4	1.4	2.0	2.4	
TOT OBS	336	1223	433	70	8	2270			11.8		716	441	652	461	
TOT PCT	23.6	53.9	19.1	3.1	.4			100.0			100.0	100.0	100.0	100.0	

PERIOD: (PRIMARY) 1912-1971  
(OVER-ALL) 1855-1971

JANUARY

AREA 0015 AUSTRALIAN BIGHT SW  
35.55 126.6E

TABLE 4

PERCENTAGE FREQUENCY OF WIND SPEED BY HOUR (GMT)

HOUR	CALM	1-3	4-10	WIND SPEED (KNOTS)			48+	MEAN	PCT FREQ	TOTAL OBS
				11-21	22-33	34-47				
00603	1.4	6.4	40.8	43.0	7.1	1.1	.1	11.9	100.0	716
06209	1.4	5.9	39.2	44.4	8.4	.5	.2	12.2	100.0	441
12615	2.0	6.1	44.0	40.0	7.1	.8	.0	11.4	100.0	652
18621	2.4	5.2	46.2	37.7	6.9	.9	.7	11.7	100.0	461
TOT	40	136	965	939	166	19	5	11.8		2270
PCT	1.8	6.0	42.5	41.4	7.3	.8	.2		100.0	

TABLE 5

PCT FREQ OF TOTAL CLOUD AMOUNT (EIGHTHS)  
BY WIND DIRECTION

WIND DIR	0-2	3-4	5-7	8 & OBSCD	TOTAL OBS	MEAN CLOUD COVER
N	2.6	1.2	3.5	1.3		4.4
NE	5.5	2.8	6.4	3.4		4.4
E	2.3	1.5	5.9	4.5		5.7
SE	1.7	1.5	4.5	2.7		5.5
S	2.5	3.0	6.7	3.4		5.3
SW	3.0	4.7	5.7	3.9		5.0
W	2.7	2.0	3.8	1.8		4.4
NW	1.2	.4	.9	.9		4.6
VAR	.0	.0	.0	.0		.0
CALM	.7	.2	.7	.7		4.7
TOT OBS	200	158	345	204	907	5.0
TOT PCT	22.1	17.4	38.0	22.5	100.0	

TABLE 6

PERCENTAGE FREQUENCY OF CEILING HEIGHTS (FT, NH >4/8)  
AND OCCURRENCE OF NH <5/8 BY WIND DIRECTION

	000	150	300	600	1000	2000	3500	5000	6500	8000+	NH <5/8 ANY HGT	TOTAL OBS
	149	299	599	999	1999	3499	4999	6499	7999			
N	.0	.0	.0	.8	.8	1.0	.8	.1	.0	.2	4.9	
NE	.1	.0	.1	1.6	2.5	1.6	1.8	.1	.0	.1	10.1	
E	.0	.0	.0	.8	3.0	2.6	1.2	.5	.1	.2	5.8	
SE	.0	.0	.1	.8	2.8	1.3	.8	.2	.0	.0	4.4	
S	.0	.1	.2	.8	3.2	2.7	1.0	.3	.0	.0	7.1	
SW	.0	.0	.1	1.4	1.7	2.5	1.7	.3	*	.0	9.7	
W	.0	.0	.0	.4	1.4	.9	.1	.1	.1	.1	7.2	
NW	.0	.0	.0	.1	.6	.2	.4	.0	.0	.0	2.0	
VAR	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
CALM	.0	.0	.0	.0	.3	.4	.1	.1	.0	.1	1.1	
TOT OBS	1	1	5	60	148	121	71	17	2	7	474	907
TOT PCT	.1	.1	.6	6.6	16.3	13.3	7.8	1.9	.2	.8	52.3	100.0

TABLE 7

CUMULATIVE PCT FREQ OF SIMULTANEOUS OCCURRENCE  
OF CEILING HEIGHT (NH >4/8) AND VSBY (NM)

CEILING (FEET)	VSBY (NM)							
	>10	>5	>2	>1	>1/2	>1/4	>50YD	>0
>6500	.9	1.0	1.0	1.0	1.0	1.0	1.0	1.0
>4000	2.6	2.9	2.9	2.9	2.9	2.9	2.9	2.9
>3500	9.5	10.7	10.7	10.8	10.8	10.8	10.8	10.8
>2000	21.9	23.7	23.9	24.1	24.1	24.1	24.1	24.1
>1000	36.8	40.2	40.4	40.5	40.5	40.5	40.5	40.5
>600	41.7	46.5	46.9	47.0	47.0	47.0	47.0	47.0
>300	41.8	46.8	47.5	47.6	47.6	47.6	47.6	47.6
>150	41.8	46.8	47.6	47.7	47.7	47.7	47.7	47.7
>0	41.8	46.8	47.6	47.7	47.7	47.7	47.8	47.8
TOTAL	386	432	439	440	440	440	441	441

TOTAL NUMBER OF OBS: 923

PCT FREQ NH <5/8: 52.2

TABLE 7A

PERCENTAGE FREQ OF LOW CLOUDS (EIGHTHS)

0	1	2	3	4	5	6	7	8	OBSCD	TOTAL OBS
10.4	11.2	11.1	10.4	9.0	7.8	8.9	12.8	18.2	.1	999



## JANUARY

PERIOD: (PRIMARY) 1912-1971  
(OVER-ALL) 1859-1971AREA 0015 AUSTRALIAN BIGHT SW  
35.55 126.6E

TABLE 8

PERCENT FREQ OF WIND DIRECTION VS OCCURRENCE OR NON-OCCURRENCE OF  
PRECIPITATION WITH VARYING VALUES OF VISIBILITY

VSBY (NM)		N	NE	E	SE	S	SW	W	NW	VAR	CALM	PCT	TOTAL OBS
<1/2	PCP	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
	NO PCP	.1	.1	.0	.0	.0	.0	.1	.0	.0	.0	.3	
	TOT %	.1	.1	.0	.0	.0	.0	.1	.0	.0	.0	.3	
1/2<1	PCP	.0	.0	.0	.0	.1	.0	.0	.1	.0	.0	.1	
	NO PCP	.2	.0	.1	.0	.2	.1	.0	.1	.0	.0	.6	
	TOT %	.2	.0	.1	.0	.2	.1	.0	.1	.0	.0	.8	
1<2	PCP	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
	NO PCP	.1	.2	.2	.0	.0	.1	.0	.0	.0	.0	.6	
	TOT %	.1	.2	.2	.0	.0	.1	.0	.0	.0	.0	.6	
2<5	PCP	.0	.0	.0	.1	.1	.1	.0	.0	.0	.0	.3	
	NO PCP	.1	.2	*	.1	.0	.1	.0	.0	.0	.0	.4	
	TOT %	.1	.2	*	.2	.1	.2	.0	.0	.0	.0	.7	
5<10	PCP	.2	.2	.2	.4	.6	.6	.5	.2	.0	.0	2.9	
	NO PCP	2.7	5.8	5.2	3.7	6.3	6.5	4.0	1.7	.0	.3	35.3	
	TOT %	2.9	6.0	5.5	4.1	6.9	7.1	4.5	1.9	.0	.3	38.1	
10+	PCP	.0	.0	.3	.1	.1	.2	.2	.1	.0	.0	.9	
	NO PCP	5.0	10.5	9.1	6.1	9.4	9.5	6.1	1.9	.0	1.1	58.7	
	TOT %	5.0	10.5	9.4	6.1	9.5	9.7	6.2	2.0	.0	1.1	59.6	
TOT OBS													1599
TOT PCT													8.3 16.9 15.2 9.4 16.7 17.2 10.7 4.0 .0 1.4 100.0

TABLE 9

PERCENT FREQ OF WIND DIRECTION VS WIND SPEED  
WITH VARYING VALUES OF VISIBILITY

VSBY (NM)	SPD KTS	N	NE	E	SE	S	SW	W	NW	VAR	CALM	PCT	TOTAL OBS
<1/2	0-3	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
	4-10	.1	.1	.0	.0	.0	.0	.1	.0	.0	.0	.2	
	11-21	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
	22+	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
	TOT %	.1	.1	.0	.0	.0	.0	.1	.0	.0	.0	.2	
1/2<1	0-3	.0	.0	.0	.0	.1	.0	.0	.0	.0	.0	.1	
	4-10	.2	.0	.0	.0	.1	*	.0	.1	.0	.0	.5	
	11-21	.0	.0	.0	.0	.1	.1	.0	.0	.0	.0	.1	
	22+	.0	.0	.1	.0	.0	.0	.0	.1	.0	.0	.1	
	TOT %	.2	.0	.1	.0	.3	.1	.0	.1	.0	.0	.7	
1<2	0-3	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
	4-10	*	.1	.0	.0	.0	.1	.0	.0	.0	.0	.2	
	11-21	.1	.1	.0	.0	.0	.0	.0	.0	.0	.0	.2	
	22+	.0	.0	.2	.0	.0	.0	.0	.0	.0	.0	.2	
	TOT %	.1	.2	.2	.0	.0	.1	.0	.0	.0	.0	.5	
2<5	0-3	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
	4-10	.1	.0	.0	.0	.1	.2	*	.0	.0	.0	.3	
	11-21	.0	.0	.0	.1	.1	.1	*	.0	.0	.0	.3	
	22+	.0	.1	*	.1	.0	.0	.0	.0	.0	.0	.2	
	TOT %	.1	.1	*	.2	.1	.3	.1	*	.0	.0	.9	
5<10	0-3	.5	.3	.4	.3	.2	.1	.1	.5	.0	.3	2.5	
	4-10	1.4	2.4	2.8	1.5	2.5	1.6	2.2	.7	.0	.0	15.1	
	11-21	.7	2.3	1.8	1.1	3.1	3.6	1.2	.6	.0	.0	14.5	
	22+	.2	.7	.1	.1	.6	1.2	.5	.1	.0	.0	3.5	
	TOT %	2.8	5.7	5.1	2.9	6.4	6.6	4.1	1.7	.0	.3	35.6	
10+	0-3	.4	.5	.6	.6	.6	.5	.2	.3	.0	1.4	5.1	
	4-10	2.3	4.5	4.9	3.1	5.3	3.3	2.2	.9	.0	.0	26.4	
	11-21	2.3	5.1	3.9	2.6	3.7	5.2	3.1	.7	.0	.0	26.7	
	22+	.3	.4	.2	.1	.7	1.4	.7	.1	.0	.0	4.0	
	TOT %	5.3	10.5	9.6	6.4	10.3	10.4	6.1	2.0	.0	1.4	62.1	
TOT OBS													1737
TOT PCT													8.5 16.6 15.0 9.4 17.1 17.4 10.3 3.9 .0 1.7 100.0

PERIOD: (PRIMARY) 1912-1971  
(OVER-ALL) 1855-1971

JANUARY

AREA 0015 AUSTRALIAN BIGHT SW  
35.5S 126.6E

TABLE 10

PERCENT FREQUENCY OF CEILING HEIGHTS (FEET, NH >4/8) AND  
OCCURRENCE OF NH <5/8 BY HOUR

HR	000	100	200	300	400	500	600	700	800	900	1000	1100	1200	1300	1400	1500	1600	1700	1800	TOT	NH <5/8 ANY HGT	TOTAL OBS
(GMT)	149	299	599	999	1999	3499	4999	6499	7999	8999	9999	10999	11999	12999	13999	14999	15999	16999	17999	18999	19999	20999
00003	.0	.4	.4	9.5	19.1	15.6	10.0	2.5	.0	.4	58.1	41.9	241									
06009	.0	.0	1.2	3.9	10.8	8.5	5.0	2.7	.0	1.2	33.2	66.8	259									
12015	.4	.0	.4	3.8	15.7	14.9	6.4	1.3	.4	.9	44.3	55.7	235									
18021	.0	.0	.0	7.9	18.1	11.9	9.3	.9	.4	.4	48.9	51.1	227									
TOT	1	1	5	60	152	122	73	18	2	7	441	521	962									
PCT	.1	.1	.5	6.2	15.8	12.7	7.6	1.9	.2	.7	45.8	54.2	100.0									

TABLE 11

PERCENT FREQUENCY VSBY (NH) BY HOUR

HR	<1/2	1/2<1	1<2	2<5	5<10	10+	TOTAL OBS
(GMT)							
00003	.4	1.2	1.0	1.4	39.8	56.3	510
06009	.3	.0	.8	.8	26.5	71.7	378
12015	.2	1.0	.6	.2	42.9	55.1	506
18021	.3	.8	.0	1.0	31.6	66.3	392
TOT	5	14	11	15	644	1097	1786
PCT	.3	.8	.6	.8	36.1	61.4	100.0

TABLE 12

CUMULATIVE PCT FREQ OF RANGES OF VSBY (NH) AND/OR  
CEILING HGT (FEET, NH >4/8), BY HOUR

HR	<150	<600	<1000	1000+	NH <5/8 AND 5+	TOTAL OBS
(GMT)	<50YD	<1	<5	AND 5+	AND 5+	
00003	.0	.9	11.3	49.4	39.4	231
06009	.0	1.2	6.0	28.8	65.2	250
12015	.4	.9	5.8	41.1	53.1	224
18021	.0	.0	9.2	42.7	48.2	218
TOT	1	7	74	371	478	923
PCT	.1	.8	8.0	40.2	51.8	100.0

TABLE 13

PERCENT FREQUENCY OF RELATIVE HUMIDITY BY TEMP

TEMP F	0-29	30-39	40-49	50-59	60-69	70-79	80-89	90-100	TOTAL OBS	PCT FREQ
75/79	.0	.0	.0	.0	.0	.2	.0	.0	2	.2
70/74	.0	.0	.0	.0	.5	.5	.0	.2	21	1.8
65/69	.0	.0	.1	.8	3.8	7.0	9.9	6.2	316	27.8
60/64	.0	.0	.4	3.0	13.1	18.0	17.7	8.2	686	60.3
55/59	.0	.0	.0	.5	2.9	3.5	2.5	.4	111	9.8
50/54	.0	.0	.0	.0	.0	.0	.0	.1	1	.1
TOTAL	0	0	5	49	231	333	349	170	1137	100.0
PCT	.0	.0	.4	4.3	20.3	29.3	30.7	15.0		

TABLE 14

PERCENT FREQUENCY OF WIND DIRECTION BY TEMP

N	NE	E	SE	S	SW	W	NW	VAR	CALM
75/79	.0	.1	.0	.0	.0	.0	.0	.0	.0
70/74	.3	.2	.4	.2	.1	.1	.5	.1	.0
65/69	4.4	5.9	4.5	1.3	2.6	3.6	3.7	1.4	.4
60/64	3.8	9.3	9.1	7.1	10.8	10.2	6.8	2.2	1.1
55/59	.0	.2	.7	1.4	4.1	2.9	.3	*	.0
50/54	.0	.0	.1	.0	.0	.0	.0	.0	.0
TOTAL	8.5	15.7	14.8	10.0	17.5	17.0	11.3	3.6	1.6

TABLE 15

MEANS, EXTREMES AND PERCENTILES OF TEMP (DEG F) BY HOUR

HR	MAX	99%	95%	50%	5%	1%	MIN	MEAN	TOTAL OBS
(GMT)									
00003	74	71	68	64	59	57	55	63.5	711
06009	77	73	70	65	60	58	56	64.9	428
12015	70	68	67	62	58	57	55	62.4	659
18021	71	68	66	62	57	55	53	61.6	463
TOT	77	71	68	63	58	56	53	63.1	2261

TABLE 16

PERCENT FREQUENCY OF RELATIVE HUMIDITY BY HOUR

HR	0-29	30-39	40-49	50-59	60-69	70-79	80-89	90-100	MEAN	TOTAL OBS
(GMT)										
00003	.0	6.1	18.2	33.1	27.4	15.3	7.7	3.4		314
06009	.0	8.2	27.7	27.3	28.8	7.9	7.4	2.7		267
12015	.0	2.6	21.2	27.7	34.1	14.5	7.9	3.1		311
18021	.0	1.8	15.3	31.0	30.7	21.2	8.0	2.7		274
TOT	0	54	239	348	353	172	77	1166		

JANUARY

PERIOD: (PRIMARY) 1912-1971  
(OVER-ALL) 1855-1971

AREA 0015 AUSTRALIAN BIGHT S\*  
35.55 126.6E

TABLE 17

PCT FREQ OF AIR TEMPERATURE (DEG F) AND THE OCCURRENCE OF FOG (WITHOUT PRECIPITATION)  
VS AIR-SEA TEMPERATURE DIFFERENCE (DEG F)

AIR-SEA TMP DIF	53 56	57 60	61 64	65 68	69 72	73 76	TOT	W FOG	NO FOG
9/10	.0	.0	.1	.0	.1	.1	3	.0	.2
7/8	.0	.0	.0	.1	.3	.4	10	.0	.7
6	.0	.0	.1	.2	.1	.0	6	.0	.4
5	.0	.0	.1	.9	.5	.0	21	.0	1.5
4	.0	.1	.1	.9	.7	.0	25	.1	1.7
3	.0	.0	.5	3.4	.6	.0	64	.1	4.5
2	.0	.1	1.8	4.2	.4	.0	90	.0	6.5
1	.0	.4	5.0	7.3	.1	.0	178	.2	12.6
0	.0	.5	10.6	5.2	.1	.0	230	.4	16.2
-1	.0	1.6	11.1	2.9	.1	.0	218	.3	15.4
-2	.0	2.8	10.2	.7	.1	.0	192	.5	13.3
-3	.1	5.7	5.9	.4	.0	.0	168	.1	11.9
-4	.4	4.1	2.9	.1	.0	.0	105	.0	7.5
-5	.1	1.9	1.1	.1	.0	.0	43	.1	3.0
-6	.1	1.6	.4	.0	.0	.0	29	.0	2.1
-7/-8	.1	.6	.0	.0	.0	.0	9	.0	.6
-9/-10	.1	.1	.0	.0	.0	.0	2	.0	.1
TOTAL	12	269	368	44	6	1393	25	1368	98.2
PCT	.9	19.3	49.8	26.4	3.2	.4	100.0	1.8	98.2

V

PERIOD: (OVER-ALL) 1963-1971

TABLE 18

PCT FREQ OF WIND SPEED (KTS) AND DIRECTION VERSUS SEA HEIGHTS (FT)

HGT	1-3	4-10	11-21	22-33	34-47	48+	PCT	1-3	4-10	11-21	22-33	34-47	48+	PCT
<1	.4	.1	.0	.0	.0	.0	.5	.2	.5	.0	.0	.0	.0	.7
1-2	.0	1.7	.9	.0	.0	.0	2.7	.4	2.3	1.2	.0	.0	.0	3.9
3-4	.3	.8	1.2	.4	.0	.0	2.7	.4	3.3	3.5	.0	.0	.0	6.9
5-6	.0	.0	1.4	.0	.0	.0	1.4	.0	.6	1.8	.0	.0	.0	2.4
7	.0	.0	1.4	.4	.0	.0	1.8	.0	.0	.8	.0	.0	.0	.8
8-9	.0	.0	.0	.1	.0	.0	.1	.0	.0	.2	.0	.0	.0	.2
10-11	.0	.0	.3	.0	.0	.0	.3	.0	.0	.6	.0	.0	.0	.6
12	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
13-16	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
17-19	.0	.2	.0	.0	.0	.0	.2	.0	.0	.0	.0	.0	.0	.0
20-22	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
23-25	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
26-32	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
33-40	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
41-48	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
49-60	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
61-70	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
71-86	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
87+	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
TOT PCT	.7	2.8	5.2	.9	.0	.0	9.7	.6	6.7	7.5	.6	.0	.0	15.5

HGT	1-3	4-10	11-21	22-33	34-47	48+	PCT	1-3	4-10	11-21	22-33	34-47	48+	PCT
<1	.2	.7	.0	.0	.0	.0	.9	.2	.4	.0	.0	.0	.0	.6
1-2	.0	3.5	.6	.0	.0	.0	4.1	.2	1.3	.6	.0	.0	.0	2.1
3-4	.4	2.2	2.3	.0	.0	.0	4.9	.0	1.5	1.3	.0	.0	.0	2.8
5-6	.0	.7	2.6	.2	.0	.0	3.4	.0	.7	2.3	.0	.0	.0	3.0
7	.0	.0	.7	.0	.0	.0	.7	.0	.0	.2	.0	.0	.0	.3
8-9	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.2	.0	.0	.2
10-11	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
12	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
13-16	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.2	.0	.0	.2
17-19	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
20-22	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
23-25	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
26-32	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
33-40	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
41-48	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
49-60	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
61-70	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
71-86	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
87+	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
TOT PCT	.6	7.1	6.1	.2	.0	.0	13.9	.4	3.9	4.4	.4	.0	.0	9.1

PERIOD: (OVER-ALL) 1963-1971

JANUARY

AREA 0015 AUSTRALIAN RIGHT SW  
35.35 126.6E

TABLE 18 (CONT)

PCT FREQ OF WIND SPEED (KTS) AND DIRECTION VERSUS SEA HEIGHTS (FT)

HGT	S							SW							PCT
	1-3	4-10	11-21	22-33	34-47	48+	PCT	1-3	4-10	11-21	22-33	34-47	48+	PCT	
<1	.2	.6	.0	.0	.0	.0	.8	.4	.4	.0	.0	.0	.0	.8	
1-2	.0	3.2	.6	.0	.0	.0	3.8	.4	1.6	.8	.0	.0	.0	2.8	
3-4	.0	2.1	2.0	.3	.0	.0	4.4	.0	2.0	2.8	.0	.0	.0	4.9	
5-6	.0	.6	2.3	.5	.0	.0	3.4	.0	.4	2.8	.5	.0	.0	3.7	
7	.0	.0	1.8	.1	.0	.0	1.9	.0	.0	1.8	1.0	.0	.0	2.8	
8-9	.0	.0	.4	.3	.0	.0	.7	.0	.0	.6	.2	.0	.0	.9	
10-11	.0	.1	.4	.3	.2	.0	1.1	.0	.0	.0	.1	.0	.0	.8	
12	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.8	.0	.0	.4	
13-16	.0	.0	.0	.1	.2	.0	.3	.0	.0	.0	.4	.0	.0	.0	
17-19	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
20-22	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
23-25	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
26-32	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
33-40	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
41-48	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
49-60	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
61-70	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
71-86	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
87+	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
TOT PCT	.2	6.6	7.4	1.8	.4	.0	16.4	.8	4.4	8.9	3.1	.0	.0	17.1	

HGT	W							NW							PCT	TOTAL PCT
	1-3	4-10	11-21	22-33	34-47	48+	PCT	1-3	4-10	11-21	22-33	34-47	48+	PCT		
<1	.0	.0	.0	.0	.0	.0	.0	.2	.0	.0	.0	.0	.0	.2		
1-2	.2	2.3	.5	.0	.0	.0	3.0	.0	.7	.0	.0	.0	.0	.7		
3-4	.0	1.4	2.5	.0	.0	.0	3.9	.0	.8	.3	.0	.0	.0	1.2		
5-6	.0	.0	2.2	.3	.0	.0	2.6	.0	.0	.2	.4	.0	.0	.6		
7	.0	.0	1.1	.7	.0	.0	1.8	.0	.0	.3	.0	.0	.0	.3		
8-9	.0	.0	.3	.2	.0	.0	.5	.0	.0	.0	.0	.0	.0	.0		
10-11	.0	.2	.0	.1	.0	.0	.3	.0	.0	.0	.0	.0	.0	.0		
12	.0	.0	.4	.2	.0	.0	.6	.0	.0	.0	.0	.0	.0	.0		
13-16	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0		
17-19	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0		
20-22	.0	.0	.0	.2	.0	.0	.2	.0	.0	.0	.0	.0	.0	.0		
23-25	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0		
26-32	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0		
33-40	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0		
41-48	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0		
49-60	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0		
61-70	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0		
71-86	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0		
87+	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0		
TOT PCT	.2	3.8	7.1	1.8	.0	.0	12.9	.2	1.3	.9	.4	.0	.0	3.0	97.7	

WIND SPEED (KTS) VS SEA HEIGHT (FT)

HGT	0-3	4-10	11-21	22-33	34-47	48+	PCT	TOT OBS
<1	4.2	3.0	.0	.0	.0	.0	7.2	
1-2	1.5	16.7	5.1	.0	.0	.0	23.4	
3-4	.8	14.1	15.6	.8	.0	.0	31.2	
5-6	.0	2.9	15.4	1.9	.0	.0	20.2	
7	.0	.0	8.0	2.3	.0	.0	10.3	
8-9	.0	.0	1.5	1.1	.0	.0	2.7	
10-11	.0	.4	.8	1.1	.2	.0	2.5	
12	.0	.0	.4	1.0	.0	.0	1.3	
13-16	.0	.0	.0	.8	.2	.0	1.0	
17-19	.0	.2	.0	.0	.0	.0	.2	
20-22	.0	.0	.0	.2	.0	.0	.0	
23-25	.0	.0	.0	.0	.0	.0	.0	
26-32	.0	.0	.0	.0	.0	.0	.0	
33-40	.0	.0	.0	.0	.0	.0	.0	
41-48	.0	.0	.0	.0	.0	.0	.0	
49-60	.0	.0	.0	.0	.0	.0	.0	
61-70	.0	.0	.0	.0	.0	.0	.0	
71-86	.0	.0	.0	.0	.0	.0	.0	
87+	.0	.0	.0	.0	.0	.0	.0	
TOT PCT	6.5	37.3	46.8	9.1	.4	.0	100.0	526

PERIOD: (OVER-ALL) 1949-1971

TABLE 19

PERCENT FREQUENCY OF WAVE HEIGHT (FT) VS WAVE PERIOD (SECONDS)

PERIOD (SEC)	<1	1-2	3-4	5-6	7	8-9	10-11	12	13-16	17-19	20-22	23-25	26-32	33-40	41-48	49-60	61-70	71-86	87+	TOTAL	MEAN HGT
<6	.7	3.5	7.1	3.7	1.6	.4	.3	.1	.3	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	132	4
6-7	.0	.4	4.7	6.5	5.7	2.7	2.3	.7	1.1	.4	.0	.0	.0	.0	.0	.0	.0	.0	.0	183	7
8-9	.0	.0	2.8	5.9	6.5	6.3	3.9	1.2	1.2	.5	.4	.1	.0	.0	.0	.0	.0	.0	.0	215	8
10-11	.0	.0	.9	1.2	2.9	2.1	2.4	1.7	1.5	.7	.0	.3	.0	.0	.0	.0	.0	.0	.0	103	9
12-13	.0	.0	.3	.7	.7	2.3	.8	.7	1.5	.1	.0	.0	.0	.0	.0	.0	.0	.0	.0	52	11
>13	.0	.0	.0	.1	.3	.1	.7	.4	.5	.3	.1	.0	.0	.0	.0	.0	.0	.0	.0	44	6
NDPT	.4	.4	1.6	1.3	.8	.5	.1	.4	.1	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	749	7
TOTAL	.8	32	130	146	139	108	78	39	46	15	4	3	1	0	0	0	0	0	0	100.0	
PCT	1.1	4.3	17.4	19.5	18.6	14.4	10.4	5.2	6.1	2.0	.5	.4	.1	.0	.0	.0	.0	.0	.0		

## FEBRUARY

PERIOD: (PRIMARY) 1903-1969  
(OVER-ALL) 1855-1969

AREA 0015 AUSTRALIAN BIGHT SW  
35.65 126.5E

TABLE 1

## PERCENT FREQUENCY OF WEATHER OCCURRENCE BY WIND DIRECTION

WIND DIR	PRECIPITATION TYPE							OTHER WEATHER PHENOMENA							
	RAIN	RAIN SHWR	DRZL	FRZG PCPN	SNOW	OTHER FRZN PCPN	HAIL	PCPN AT DB TIME	PCPN PAST HOUR	THDR LTNG	FOG WD PCPN	FOG WD PCPN PAST HR	SMOKE HAZE	SPRAY BLWG DUST	NO SIG WFA
N	2.4	1.1	.0	.0	.0	.0	.0	3.5	2.4	.9	2.6	.0	3.5	.0	87.1
NE	3.0	.3	.7	.0	.0	.0	.0	4.1	.4	1.6	2.0	.3	2.4	.0	89.8
E	2.0	1.8	3.5	.0	.0	.0	.0	7.4	.8	1.0	1.7	.0	1.0	.0	88.9
SE	1.3	2.2	.8	.0	.0	.0	.0	4.0	.7	1.1	1.7	.0	.7	.0	92.0
S	2.2	2.2	.8	.0	.0	.0	.0	5.1	.7	.3	2.2	.0	.0	.0	91.8
SW	.5	3.4	2.7	.0	.0	.0	.0	6.6	1.7	1.9	2.1	.0	.4	.0	87.4
W	1.5	2.3	2.1	.0	.0	.0	.0	5.9	1.7	1.1	.8	.0	.0	.0	91.1
NW	1.9	1.9	.0	.0	.0	.0	.0	3.8	.0	2.8	5.7	.0	.9	.0	86.8
VAR	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
CALM	.0	.0	.0	.0	.0	.0	.0	.0	7.7	7.7	.0	.0	.0	.0	84.6
TOT PCT	1.9	1.9	1.6	.0	.0	.0	.0	5.2	1.0	1.3	2.0	.1	1.1	.0	89.7
TOT OBS:	1664														

TABLE 2

## PERCENT FREQUENCY OF WEATHER OCCURRENCE BY HOUR

HOUR (GMT)	PRECIPITATION TYPE							OTHER WEATHER PHENOMENA							
	RAIN	RAIN SHWR	DRZL	FRZG PCPN	SNOW	OTHER FRZN PCPN	HAIL	PCPN AT DB TIME	PCPN PAST HOUR	THDR LTNG	FOG WD PCPN	FOG WD PCPN PAST HR	SMOKE HAZE	SPRAY BLWG DUST	NO SIG WFA
00003	1.8	2.4	2.4	.0	.0	.0	.0	6.7	1.0	.0	1.4	.0	1.2	.0	89.6
06009	1.9	1.9	.3	.0	.0	.0	.0	4.0	1.6	.0	2.4	.0	1.9	.0	90.1
12015	1.7	1.5	1.5	.0	.0	.0	.0	4.4	.2	2.5	2.1	.2	1.1	.0	90.3
18021	2.0	2.0	2.0	.0	.0	.0	.0	6.1	1.5	2.3	2.0	.0	.5	.0	88.0
TOT PCT	1.9	2.0	1.6	.0	.0	.0	.0	5.4	1.0	1.2	2.0	.1	1.2	.0	89.5
TOT OBS:	1727														

TABLE 3

## PERCENTAGE FREQUENCY OF WIND DIRECTION BY SPEED AND BY HOUR

WIND DIR	WIND SPEED (KNOTS)							TOTAL OBS	PCT FREQ	MEAN SPD	HOUR (GMT)							
	0-3	4-10	11-21	22-33	34-47	48+					00	03	06	09	12	15	18	21
N	.4	3.7	3.2	.5	.0	.0		7.8	11.4		8.5	12.7	5.3	10.7	5.3	7.4	6.4	8.3
NE	1.1	7.8	7.0	1.6	.0	.0		17.6	12.0		17.8	15.9	17.8	18.5	16.3	16.9	19.4	20.7
E	1.4	9.1	6.4	.5	.0	.0		17.5	10.2		19.0	15.2	17.0	17.1	18.1	19.3	17.6	15.1
SE	.7	7.1	6.4	.5	.0	.0		14.6	10.9		13.3	11.7	18.8	10.1	17.6	14.6	16.2	9.5
S	1.0	6.5	6.2	1.0	.1	.0		14.7	11.3		14.4	12.5	16.2	10.4	15.8	14.6	17.7	13.0
SW	.5	5.2	6.1	2.2	.3	.0		14.3	13.9		13.6	15.7	12.9	14.7	14.9	14.5	12.7	17.0
W	.6	3.3	2.4	.7	.0	.0		7.1	12.3		7.2	9.0	6.8	11.0	6.2	6.3	5.3	7.4
NW	.6	2.1	1.0	.3	.0	.0		3.9	9.9		4.3	4.7	3.5	4.0	3.0	3.9	3.1	6.5
VAR	.0	.0	.0	.0	.0	.0		.0	.0		.0	.0	.0	.0	.0	.0	.0	.0
CALM	2.2							2.2	.0		1.9	2.4	1.6	3.5	2.8	2.5	1.5	2.5
TOT OBS	214	1115	963	182	15	0	2489		11.3		480	327	311	173	459	243	334	162
TOT PCT	8.6	44.8	38.7	7.3	.6	.0		100.0			100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0

TABLE 3A

WIND DIR	WIND SPEED (KNOTS)							TOTAL OBS	PCT FREQ	MEAN SPD	HOUR (GMT)			
	0-6	7-16	17-27	28-40	41+						00	03	06	12
N	1.8	4.1	1.7	.1	.0			7.8	11.4		10.2	7.2	6.0	7.1
NE	3.8	9.2	4.3	.3	.0			17.6	12.0		17.0	18.1	16.5	19.8
E	4.6	11.1	1.8	.1	.0			17.5	10.2		17.5	17.0	18.5	16.8
SE	3.1	9.3	2.1	.1	.0			14.6	10.9		12.6	15.7	16.6	14.1
S	3.2	8.9	2.4	.2	.0			14.7	11.3		13.7	14.1	15.4	16.2
SW	2.6	6.8	3.9	.9	.1			14.3	13.9		14.5	13.6	14.8	14.1
W	1.8	3.4	1.4	.4	.0			7.1	12.3		7.9	8.3	6.2	6.0
NW	1.7	1.4	.8	.1	.0			3.9	9.9		4.5	3.7	3.3	4.2
VAR	.0	.0	.0	.0	.0			.0	.0		.0	.0	.0	.0
CALM	2.2							2.2	.0		2.1	2.3	2.7	1.8
TOT OBS	621	1350	459	55	4	2489			11.3		807	484	702	496
TOT PCT	24.9	54.2	18.4	2.2	.2			100.0			100.0	100.0	100.0	100.0



PERIOD: (PRIMARY) 1903-1969  
(OVER-ALL) 1855-1969

FEBRUARY

AREA 0015 AUSTRALIAN BIGHT SW  
35.25 126.5E

TABLE 4

PERCENTAGE FREQUENCY OF WIND SPEED BY HOUR (GMT)

HOUR	CALM	1-3	4-10	WIND SPEED (KNOTS)			48+	MEAN	PCT FREQ	TOTAL OBS
				11-21	22-33	34-47				
00003	2.1	7.3	46.2	35.4	8.3	.6	.0	11.2	100.0	807
06009	2.3	5.0	42.4	39.9	10.1	.4	.0	12.0	100.0	484
12015	2.7	6.6	44.7	40.2	5.1	.7	.0	11.0	100.0	702
18021	1.8	5.8	45.0	40.7	6.0	.6	.0	11.2	100.0	496
TOT	56	158	1115	963	182	15	0	11.3		2489
PCT	2.2	6.3	44.8	38.7	7.3	.6	.0		100.0	

TABLE 5

PCT FREQ OF TOTAL CLOUD AMOUNT (EIGHTHS)  
BY WIND DIRECTION

WIND DIR	0-2	3-4	5-7	8 & OBS	TOTAL OBS	MEAN CLOUD COVER
N	1.6	.8	1.8	1.8		4.9
NE	5.1	3.7	7.0	4.8		4.7
E	2.9	1.8	5.9	6.0		5.6
SE	1.7	2.6	6.9	7.4		6.1
S	1.9	2.2	6.9	4.5		5.8
SW	2.0	2.1	5.4	3.0		5.3
W	1.7	.6	2.0	1.3		4.8
NW	1.1	.6	.5	.7		4.1
VAR	.0	.0	.0	.0		.0
CALM	.4	.2	.2	.3		4.0
TOT OBS	166	133	332	271	902	5.4
TOT PCT	18.4	14.7	36.8	30.0	100.0	

TABLE 6

PERCENTAGE FREQUENCY OF CEILING HEIGHTS (FT, NH >4/8)  
AND OCCURRENCE OF NH <5/8 BY WIND DIRECTION

	000 149	150 299	300 599	600 999	1000 1999	2000 3499	3500 4999	5000 6499	6500 7999	8000+	NH <5/8 ANY HGT	TOTAL OBS
N	.0	.0	.1	.2	1.3	.9	.2	.1	.0	.0	3.1	
NE	.1	.0	.5	1.1	3.8	2.2	1.9	.3	.1	.3	10.4	
E	.4	.1	.1	1.3	3.5	2.8	1.3	.4	.2	.2	6.2	
SE	.0	.0	.0	2.7	3.5	4.6	.9	.6	.2	.1	6.3	
S	.0	.0	.2	1.2	3.7	2.6	1.3	.5	.1	.1	6.0	
SW	.0	.0	.1	.5	3.1	2.5	.4	.4	.1	.0	5.4	
W	.0	.1	.0	.1	.9	.7	.6	.2	.1	.0	3.0	
NW	.0	.0	.1	.2	.2	.2	.2	.0	.0	.0	1.9	
VAR	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
CALM	.0	.0	.0	.1	.2	.1	.0	.0	.0	.0	.8	
TOT OBS	4	2	10	67	182	150	62	22	6	7	390	902
TOT PCT	.4	.2	1.1	7.4	20.2	16.6	6.9	2.4	.7	.8	43.2	100.0

TABLE 7

CUMULATIVE PCT FREQ OF SIMULTANEOUS OCCURRENCE  
OF CEILING HEIGHT (NH >4/8) AND VSBY (NM)

CEILING (FEET)	VSBY (NM)							
	>10	>5	>2	>1	>1/2	>1/4	>50YD	>0
>6500	1.2	1.5	1.6	1.6	1.6	1.6	1.6	1.6
>4000	3.0	3.8	4.0	4.0	4.0	4.0	4.0	4.0
>3500	8.9	10.7	10.9	10.9	10.9	10.9	10.9	10.9
>2000	23.8	27.5	27.7	27.7	27.7	27.7	27.7	27.7
>1000	41.7	47.3	47.6	47.6	47.6	47.6	47.6	47.6
>600	47.7	54.5	55.0	55.0	55.0	55.0	55.0	55.0
>300	48.5	55.5	56.2	56.2	56.2	56.2	56.2	56.2
>150	48.6	55.6	56.4	56.4	56.4	56.4	56.4	56.4
>0	48.9	56.0	56.8	56.8	56.8	56.8	56.8	56.8
TOTAL	452	517	525	525	525	525	525	525

TOTAL NUMBER OF OBS: 924

PCT FREQ NH <5/8: 43.2

TABLE 7A

PERCENTAGE FREQ OF LOW CLOUDS (EIGHTHS)

	0	1	2	3	4	5	6	7	8	OBS	TOTAL OBS
	6.9	9.1	8.1	9.7	7.9	7.3	11.2	12.6	27.1	.1	1006

PERIOD: (PRIMARY) 1903-1969  
(OVER-ALL) 1853-1969

FEBRUARY

AREA 0015 AUSTRALIAN BIGHT SW  
35.6S 126.5E

TABLE 8

PERCENT FREQ OF WIND DIRECTION VS OCCURRENCE OR NON-OCCURRENCE OF  
PRECIPITATION WITH VARYING VALUES OF VISIBILITY

VSBY (NM)		N	NE	E	SE	S	SW	W	NW	VAR	CALM	PCT	TOTAL OBS	
<1/2	PCP	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0		
	NO PCP	*	.0	.0	.0	.0	.0	.0	.1	.0	.0	.0	.1	
	TOT %	*	.0	.0	.0	.0	.0	.0	.1	.0	.0	.0	.1	
1/2<1	PCP	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0		
	NO PCP	*	.1	.2	.1	.0	.1	.1	.1	.0	.0	.0	.7	
	TOT %	*	.1	.2	.1	.0	.1	.1	.1	.0	.0	.0	.7	
1<2	PCP	.0	.1	.0	.0	.0	.0	.0	.0	.0	.0	.0	.1	
	NO PCP	.2	.1	.0	.0	.0	.1	.1	.1	.0	.0	.0	.5	
	TOT %	.2	.2	.0	.0	.0	.1	.1	.1	.0	.0	.0	.5	
2<5	PCP	.0	*	.2	.1	.1	.1	.0	.0	.0	.0	.0	.4	
	NO PCP	.1	.1	.1	.0	.0	.0	.0	.1	.0	.0	.0	.2	
	TOT %	.1	.1	.2	.1	.1	.1	.0	.1	.0	.0	.0	.7	
5<10	PCP	.2	.3	.9	.4	.5	.7	.3	.1	.0	.0	.0	3.2	
	NO PCP	3.1	5.6	6.5	4.4	6.2	6.3	3.5	1.1	.0	.1	.1	36.8	
	TOT %	3.3	5.9	7.4	4.9	6.7	7.0	3.7	1.2	.0	.1	.1	40.1	
10+	PCP	.1	.4	.3	.2	.2	.2	.1	*	.0	.0	.0	1.5	
	NO PCP	3.2	11.8	9.9	10.9	8.3	6.9	3.1	1.7	.0	.7	.7	56.4	
	TOT %	3.3	12.2	10.1	11.1	8.6	7.0	3.2	1.7	.0	.7	.7	57.9	
TOT OBS														1664
TOT PCT		6.9	18.4	17.9	16.1	15.3	14.3	7.1	3.2	.0	.8	100.0		

TABLE 9

PERCENT FREQ OF WIND DIRECTION VS WIND SPEED  
WITH VARYING VALUES OF VISIBILITY

VSBY (NM)	SPD KTS	N	NE	E	SE	S	SW	W	NW	VAR	CALM	PCT	TOTAL OBS	
<1/2	0-3	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0		
	4-10	* .0	.0	.0	.0	.0	.0	.0	.1	.0	.0	.0	.1	
	11-21	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
	22+	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
	TOT %	* .0	.0	.0	.0	.0	.0	.0	.1	.0	.0	.1		
1/2<1	0-3	.0	.0	.1	.0	.0	.0	.0	.0	.0	.0	.0	.1	
	4-10	* .1	.1	* .0	.0	.0	.1	.1	.1	.0	.0	.0	.3	
	11-21	.0	.0	* .1	.0	.0	.1	.0	.0	.0	.0	.0	.2	
	22+	.0	.1	.0	.0	.0	.0	.0	.0	.0	.0	.0	.1	
	TOT %	* .1	.2	.1	.0	.0	.1	.1	.1	.0	.0	.0	.6	
1<2	0-3	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
	4-10	* .0	.0	.0	.0	.0	.0	.0	*	.0	.0	.0	.1	
	11-21	.1	.1	.0	.0	.0	.1	.1	.1	.0	.0	.0	.4	
	22+	.1	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.1	
	TOT %	.2	.1	.0	.0	.0	.1	.1	.1	.0	.0	.0	.5	
2<5	0-3	.0	.0	.0	.0	.0	.0	.0	.1	.0	.0	.0	.1	
	4-10	.1	.0	*	*	.0	.0	.0	.0	.0	.0	.0	.1	
	11-21	.0	*	*	.1	.0	.1	.0	.1	.0	.0	.0	.3	
	22+	.0	.1	.2	.0	.1	.1	.0	.0	.0	.0	.0	.3	
	TOT %	.1	.1	.2	.1	.1	.2	.0	.1	.0	.0	.0	.8	
5<10	0-3	.3	.6	.7	.2	.4	.2	.3	.2	.0	.1	.1	3.0	
	4-10	1.4	2.6	2.9	2.0	2.4	2.3	1.3	.4	.0	.0	.0	15.3	
	11-21	1.4	2.0	3.0	2.0	2.9	2.6	1.3	.3	.0	.0	.0	15.3	
	22+	.2	.5	.3	.2	.4	1.4	.6	.2	.0	.0	.0	3.7	
	TOT %	3.2	5.6	6.9	4.5	6.2	6.4	3.4	1.1	.0	.1	.1	37.3	
10+	0-3	.1	.4	.7	.3	.6	.2	.3	.1	.0	1.3	.0	4.0	
	4-10	1.9	5.2	4.6	5.5	4.4	2.9	2.2	1.4	.0	.0	.0	28.1	
	11-21	1.7	5.4	4.6	5.5	3.6	3.0	.9	.6	.0	.0	.0	25.4	
	22+	.2	1.1	.1	.4	.4	.8	.3	.1	.0	.0	.0	3.2	
	TOT %	3.8	12.1	10.0	11.6	9.0	6.9	3.8	2.2	.0	1.3	.0	60.7	
TOT OBS														1822
TOT PCT		7.4	18.0	17.3	16.3	15.3	13.6	7.3	3.6	.0	1.3	100.0		

## FEBRUARY

PERIOD: (PRIMARY) 1903-1969  
(OVER-ALL) 1855-1969

AREA 0015 AUSTRALIAN BIGHT SW  
35.65 126.5E

TABLE 10

PERCENT FREQUENCY OF CEILING HEIGHTS (FEET, NH >4/8) AND  
OCCURRENCE OF NH <5/8 BY HOUR

HOUR (GMT)	000 149	150 299	300 599	600 999	1000 1999	2000 3499	3500 4999	5000 6499	6500 7999	8000+	TOTAL	NH <5/8 ANY HGT	TOTAL OBS
00003	.0	.4	.4	8.0	24.1	18.9	7.2	3.2	.8	.8	63.9	36.1	249
06009	.4	.4	.4	4.1	16.0	16.8	5.3	1.6	1.2	1.2	47.5	52.5	244
12015	.0	.0	.9	7.7	17.6	16.3	6.8	2.7	.0	.5	52.5	47.5	221
18021	1.3	.0	3.0	9.1	20.3	13.4	7.8	1.7	.9	.9	58.4	41.6	231
TOT	4	2	11	68	185	155	64	22	7	8	526	419	945
PCT	.4	.2	1.2	7.2	19.6	16.4	6.8	2.3	.7	.8	55.7	44.3	100.0

TABLE 11

PERCENT FREQUENCY VSBY (NM) BY HOUR

HOUR (GMT)	<1/2	1/2<1	1<2	2<5	5<10	10+	TOTAL OBS
00003	.2	.2	.9	1.3	41.4	56.0	548
06009	.3	.8	1.0	1.0	31.3	65.7	396
12015	.0	.6	.4	.4	45.8	52.9	520
18021	.0	1.0	.0	.2	31.1	67.7	421
TOT	2	11	11	14	720	1127	1885
PCT	.1	.6	.6	.7	38.2	59.8	100.0

TABLE 12

CUMULATIVE PCT FREQ OF RANGES OF VSBY (NM) AND/OR  
CEILING HGT (FEET, NH >4/8), BY HOUR

HOUR (GMT)	<150 <500	<600 <1	<1000 <5	1000+ AND 5+	NH <5/8 AND 5+	TOTAL OBS
00003	.0	.8	9.5	56.0	34.6	243
06009	.4	1.3	6.3	42.2	51.5	237
12015	.0	.9	8.8	44.7	46.5	217
18021	1.3	4.8	14.1	45.8	40.1	227
TOT	4	18	89	437	398	924
PCT	.4	1.9	9.6	47.3	43.1	100.0

TABLE 13

PERCENT FREQUENCY OF RELATIVE HUMIDITY BY TEMP

TEMP F	0-29	30-39	40-49	50-59	60-69	70-79	80-89	90-100	TOTAL OBS	PCT FREQ
75/79	.0	.0	.0	.0	.0	.1	.0	.0	1	.1
70/74	.0	.0	.0	.1	.7	1.5	1.0	.5	43	3.9
65/69	.0	.0	.0	1.4	4.5	9.9	13.6	9.6	432	39.0
60/64	.0	.0	.2	2.7	10.8	17.9	12.9	6.5	567	50.9
55/59	.0	.0	.0	.2	1.3	2.2	1.4	.8	67	6.0
50/54	.0	.0	.0	.0	.0	.0	.0	.1	1	.1
TOTAL	0	0	2	49	193	352	323	195	1114	100.0
PCT	.0	.0	.2	4.4	17.3	31.6	29.0	17.5		

TABLE 14

PERCENT FREQUENCY OF WIND DIRECTION BY TEMP

N	NE	E	SE	S	SW	W	NW	VAR	CALM
.0	.1	.0	.0	.0	.0	.0	.0	.0	.0
.5	1.6	.3	.2	.1	.3	.4	.4	.0	.0
4.3	10.7	6.0	4.8	2.9	4.5	3.0	2.3	.0	.5
1.9	7.5	9.2	11.3	9.8	7.2	2.7	.7	.0	.5
.0	.2	.5	1.5	1.7	1.8	.3	*	.0	.1
.0	.0	.0	.0	*	*	.0	.0	.0	.0
6.7	20.2	16.0	17.8	14.5	13.8	6.4	3.5	.0	1.2

TABLE 15

MEANS, EXTREMES AND PERCENTILES OF TEMP (DEG F) BY HOUR

HOUR (GMT)	MAX	99%	95%	50%	5%	1%	MIN	MEAN	TOTAL OBS
00003	77	72	70	64	60	57	50	64.6	799
06009	76	72	71	66	61	59	55	65.8	481
12015	72	69	68	63	59	57	55	63.4	710
18021	73	71	67	63	59	57	55	62.8	513
TOT	77	72	69	64	59	57	50	64.1	2503

TABLE 16

PERCENT FREQUENCY OF RELATIVE HUMIDITY BY HOUR

HOUR (GMT)	0-29	30-59	60-69	70-79	80-89	90-100	MEAN	TOTAL OBS
00003	.0	5.6	17.1	28.9	32.6	15.8	78	304
06009	.0	7.4	22.3	32.0	25.3	13.0	76	269
12015	.0	2.4	16.0	29.9	28.5	23.3	80	288
18021	.0	2.8	14.2	36.5	27.4	19.1	79	288
TOT	0	52	199	365	328	205	78	1149

## FEBRUARY

PERIOD: (PRIMARY) 1903-1969  
(OVER-ALL) 1855-1969

TABLE 17

AREA 0015 AUSTRALIAN BIGHT SW  
35.65 126.5E

PCT FREQ OF AIR TEMPERATURE (DEG F) AND THE OCCURRENCE OF FOG (WITHOUT PRECIPITATION)  
VS AIR-SEA TEMPERATURE DIFFERENCE (DEG F)

AIR-SEA TMP DIF	49 52	53 56	57 60	61 64	65 68	69 72	73 76	TOT	W FOG	WD FOG
9/10	.0	.0	.0	.1	.0	.0	.0	1	.0	.1
7/8	.0	.0	.0	.0	.0	.2	.1	4	.0	.3
6	.0	.0	.0	.0	.1	.3	.1	8	.0	.5
5	.0	.0	.1	.1	.3	.8	.1	20	.0	1.3
4	.0	.0	.0	.1	.8	.7	.0	25	.1	1.6
3	.0	.0	.0	.3	1.7	1.2	.0	48	.1	3.1
2	.0	.0	.1	1.0	4.2	1.7	.0	105	.1	6.9
1	.0	.0	.1	2.1	8.1	1.1	.0	170	.5	10.7
0	.0	.0	.0	6.5	8.5	.7	.0	238	.1	15.6
-1	.0	.0	.2	10.6	6.4	.2	.0	262	.3	17.1
-2	.0	.1	1.5	9.3	3.1	.0	.0	211	.3	13.6
-3	.0	.0	1.6	10.7	1.1	.0	.0	202	.1	13.2
-4	.0	.1	2.1	5.1	.5	.0	.0	117	.2	7.5
-5	.0	.2	1.8	1.9	.3	.0	.0	62	.1	4.0
-6	.0	.1	.5	.5	.0	.0	.0	16	.0	1.1
-7/-8	.0	.0	.7	.3	.0	.0	.0	14	.0	.9
-9/-10	.1	.0	.5	.0	.0	.0	.0	8	.0	.5
TOTAL	1	7	135	732	528	104	4	1511	29	1482
PCT	.1	.5	8.9	48.4	34.9	6.9	.3	100.0	1.9	98.1

PERIOD: (OVER-ALL) 1963-1969

TABLE 18

PCT FREQ OF WIND SPEED (KTS) AND DIRECTION VERSUS SEA HEIGHTS (FT)

HGT	N							PCT	NE							PCT
	1-3	4-10	11-21	22-33	34-47	48+			1-3	4-10	11-21	22-33	34-47	48+		
<1	.1	.1	.0	.0	.0	.0	.3	.4	.6	.0	.0	.0	.0	.0	1.0	.0
1-2	.0	.8	.0	.0	.0	.0	.8	.1	3.5	1.0	.0	.0	.0	.0	4.6	.0
3-4	.0	1.1	1.8	.0	.0	.0	3.0	.0	2.5	5.1	.2	.0	.0	.0	7.8	.0
5-6	.0	.1	.9	.2	.0	.0	1.2	.0	.9	3.4	1.2	.0	.0	.0	5.5	.0
7	.0	.0	.2	.2	.0	.0	.4	.0	.0	1.7	.4	.0	.0	.0	2.1	.0
8-9	.0	.0	.1	.1	.0	.0	.3	.0	.0	.6	.6	.0	.0	.0	1.3	.0
10-11	.0	.0	.0	.0	.0	.0	.0	.0	.2	.6	.8	.0	.0	.0	1.5	.0
12	.0	.0	.0	.2	.0	.0	.2	.0	.0	.0	.2	.0	.0	.0	.2	.0
13-16	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
17-19	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
20-22	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
23-25	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
26-32	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
33-40	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
41-48	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
49-60	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
61-70	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
71-86	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
87+	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
TOT PCT	.1	2.2	3.1	.7	.0	.0	6.1	.5	7.8	12.5	3.3	.0	.0	.0	24.1	.0

HGT	E							PCT	SE							PCT
	1-3	4-10	11-21	22-33	34-47	48+			1-3	4-10	11-21	22-33	34-47	48+		
<1	.2	.6	.0	.0	.0	.0	.8	.4	.6	.0	.0	.0	.0	.0	.8	.0
1-2	.5	2.6	.5	.0	.0	.0	3.6	.0	3.5	1.4	.0	.0	.0	.0	4.9	.0
3-4	.0	2.3	4.2	.0	.0	.0	6.4	.2	3.6	2.9	.0	.0	.0	.0	6.7	.0
5-6	.0	.5	2.4	.1	.0	.0	3.0	.0	1.4	2.2	.4	.0	.0	.0	4.0	.0
7	.0	.1	.0	.0	.0	.0	.1	.0	*	1.6	*	.0	.0	.0	1.6	.0
8-9	.0	.0	.2	.0	.2	.0	.4	.0	.0	.4	.2	.0	.0	.0	.6	.0
10-11	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.2	.0	.0	.0	.2	.0
12	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	*	.0	.0	.0	*	.0
13-16	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	*	.0	.0	.0	*	.0
17-19	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
20-22	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
23-25	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
26-32	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
33-40	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
41-48	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
49-60	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
61-70	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
71-86	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
87+	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
TOT PCT	.7	6.1	7.3	.1	.2	.0	14.3	.6	9.0	8.5	1.0	.0	.0	.0	19.0	.0

PERIOD: (OVER-ALL) 1963-1969

FEBRUARY

AREA 0015 AUSTRALIAN RIGHT SW  
35.65 126.5E

TABLE 18 (CONT)

PCT FREQ OF WIND SPEED (KTS) AND DIRECTION VERSUS SEA HEIGHTS (FT)

HGT	S							PCT	SW							PCT
	1-3	4-10	11-21	22-33	34-47	48+			1-3	4-10	11-21	22-33	34-47	48+		
<1	.2	1.3	.0	.0	.0	.0		1.5	.0	.2	.0	.0	.0	.0		.2
1-2	.4	3.0	1.6	.0	.0	.0		5.0	.2	2.5	1.1	.0	.0	.0		3.8
3-4	.0	2.0	2.6	.0	.0	.0		4.7	.0	1.8	1.6	.0	.0	.0		3.3
5-6	.1	.0	1.7	.0	.0	.0		1.9	.0	.2	1.9	1.0	.0	.0		3.1
7	.0	.2	.5	.1	.0	.0		.9	.0	.2	.6	.4	.0	.0		1.2
8-9	.0	.0	.1	.2	.0	.0		.3	.0	.0	.8	.2	.0	.0		1.0
10-11	.0	.0	.4	.2	.2	.0		.8	.0	.0	.0	.4	.0	.0		.4
12	.0	.0	.0	.3	.0	.0		.3	.0	.0	.0	.0	.0	.0		.0
13-16	.0	.0	.0	.1	.0	.0		.1	.0	.0	.0	.0	.0	.0		.0
17-19	.0	.0	.0	.0	.0	.0		.0	.0	.0	.0	.0	.0	.0		.0
20-22	.0	.0	.0	.0	.0	.0		.0	.0	.0	.0	.0	.0	.0		.0
23-25	.0	.0	.0	.0	.0	.0		.0	.0	.0	.0	.0	.0	.0		.0
26-32	.0	.0	.0	.0	.0	.0		.0	.0	.0	.0	.0	.0	.0		.0
33-40	.0	.0	.0	.0	.0	.0		.0	.0	.0	.0	.0	.0	.0		.0
41-48	.0	.0	.0	.0	.0	.0		.0	.0	.0	.0	.0	.0	.0		.0
49-60	.0	.0	.0	.0	.0	.0		.0	.0	.0	.0	.0	.0	.0		.0
61-70	.0	.0	.0	.0	.0	.0		.0	.0	.0	.0	.0	.0	.0		.0
71-86	.0	.0	.0	.0	.0	.0		.0	.0	.0	.0	.0	.0	.0		.0
87+	.0	.0	.0	.0	.0	.0		.0	.0	.0	.0	.0	.0	.0		.0
TOT PCT	.7	6.5	7.0	1.0	.2	.0		15.5	.2	4.9	5.9	1.9	.0	.0		13.0

HGT	W							PCT	NW							PCT	TOTAL PCT
	1-3	4-10	11-21	22-33	34-47	48+			1-3	4-10	11-21	22-33	34-47	48+			
<1	.3	.4	.0	.0	.0	.0		.7	.3	.2	.0	.0	.0	.0		.5	
1-2	.0	1.4	.0	.0	.0	.0		1.4	.0	.7	.4	.0	.0	.0		1.1	
3-4	.0	.0	.9	.2	.0	.0		1.1	.0	.2	.3	.2	.0	.0		.7	
5-6	.0	.0	.5	.2	.0	.0		.7	.0	.0	.0	.0	.0	.0		.0	
7	.0	.0	.0	.2	.0	.0		.2	.0	.0	.0	.2	.0	.0		.2	
8-9	.0	.0	.0	.0	.0	.0		.0	.0	.0	.0	.0	.0	.0		.0	
10-11	.0	.0	.0	.0	.0	.0		.0	.0	.0	.0	.0	.0	.0		.0	
12	.0	.0	.0	.0	.0	.0		.0	.0	.0	.0	.0	.0	.0		.0	
13-16	.0	.0	.0	.0	.0	.0		.0	.0	.0	.0	.0	.0	.0		.0	
17-19	.0	.0	.0	.0	.0	.0		.0	.0	.0	.0	.0	.0	.0		.0	
20-22	.0	.0	.0	.0	.0	.0		.0	.0	.0	.0	.0	.0	.0		.0	
23-25	.0	.0	.0	.0	.0	.0		.0	.0	.0	.0	.0	.0	.0		.0	
26-32	.0	.0	.0	.0	.0	.0		.0	.0	.0	.0	.0	.0	.0		.0	
33-40	.0	.0	.0	.0	.0	.0		.0	.0	.0	.0	.0	.0	.0		.0	
41-48	.0	.0	.0	.0	.0	.0		.0	.0	.0	.0	.0	.0	.0		.0	
49-60	.0	.0	.0	.0	.0	.0		.0	.0	.0	.0	.0	.0	.0		.0	
61-70	.0	.0	.0	.0	.0	.0		.0	.0	.0	.0	.0	.0	.0		.0	
71-86	.0	.0	.0	.0	.0	.0		.0	.0	.0	.0	.0	.0	.0		.0	
87+	.0	.0	.0	.0	.0	.0		.0	.0	.0	.0	.0	.0	.0		.0	
TOT PCT	.3	1.8	1.4	.6	.0	.0		4.1	.3	1.2	.7	.4	.0	.0		2.5	98.6

WIND SPEED (KTS) VS SEA HEIGHT (FT)

HGT	0-3	4-10	11-21	22-33	34-47	48+	PCT	TOT OBS
<1	3.7	4.0	.0	.0	.0	.0	7.7	
1-2	1.2	17.9	6.0	.0	.0	.0	25.0	
3-4	.2	13.5	19.3	.6	.0	.0	33.5	
5-6	.2	3.1	12.9	3.1	.0	.0	19.3	
7	.0	.6	4.6	1.5	.0	.0	6.7	
8-9	.0	.0	2.3	1.3	.2	.0	3.9	
10-11	.0	.2	1.0	1.5	.2	.0	2.9	
12	.0	.0	.0	.8	.0	.0	.8	
13-16	.0	.0	.0	.2	.0	.0	.2	
17-19	.0	.0	.0	.0	.0	.0	.0	
20-22	.0	.0	.0	.0	.0	.0	.0	
23-25	.0	.0	.0	.0	.0	.0	.0	
26-32	.0	.0	.0	.0	.0	.0	.0	
33-40	.0	.0	.0	.0	.0	.0	.0	
41-48	.0	.0	.0	.0	.0	.0	.0	
49-60	.0	.0	.0	.0	.0	.0	.0	
61-70	.0	.0	.0	.0	.0	.0	.0	
71-86	.0	.0	.0	.0	.0	.0	.0	
87+	.0	.0	.0	.0	.0	.0	.0	
TOT PCT	5.2	39.3	46.1	9.1	.4	.0	100.0	519

PERIOD: (OVER-ALL) 1949-1969

TABLE 19

PERCENT FREQUENCY OF WAVE HEIGHT (FT) VS WAVE PERIOD (SECONDS)

PERIOD (SEC)	<1	1-2	3-4	5-6	7	8-9	10-11	12	13-16	17-19	20-22	23-25	26-32	33-40	41-48	49-60	61-70	71-86	87+	TOTAL	MEAN HGT
<6	1.5	5.9	6.2	4.0	1.2	.9	.5	.1	.1	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	155	4
6-7	.0	.7	3.6	6.3	5.5	4.1	1.3	.3	.3	.4	.0	.0	.0	.0	.0	.0	.0	.0	.0	170	6
8-9	.0	.3	1.8	5.2	6.9	4.6	2.9	1.1	.4	.3	.3	.0	.1	.0	.0	.0	.0	.0	.0	180	7
10-11	.0	.0	.8	1.3	4.1	3.8	.8	.7	1.2	.0	.1	.0	.0	.0	.0	.0	.0	.0	.0	97	8
12-13	.0	.0	.3	.5	1.6	1.5	1.2	.7	.9	.1	.7	.0	.0	.0	.0	.0	.0	.0	.0	55	10
>13	.0	.0	.0	.0	.7	.1	.4	.1	.9	.3	.0	.1	.0	.0	.0	.0	.0	.0	.0	20	12
INDEX	.4	.8	1.7	3.2	2.0	1.1	.8	.1	.1	.3	.0	.0	.0	.0	.0	.0	.0	.0	.0	79	6
TOTAL	14	58	109	155	166	122	80	23	30	10	8	1	1	0	0	0	0	0	0	757	7
PCT	1.8	7.7	14.4	20.5	21.9	16.1	7.9	3.0	4.0	1.3	1.1	.1	.1	.0	.0	.0	.0	.0	.0	100.0	



PERIOD: (PRIMARY) 1912-1971  
(OVER-ALL) 1858-1971

MARCH

AREA 0015 AUSTRALIAN BIGHT SW  
35.65 126.5E

TABLE 1

PERCENT FREQUENCY OF WEATHER OCCURRENCE BY WIND DIRECTION

PRECIPITATION TYPE										OTHER WEATHER PHENOMENA						
WIND DIR	RAIN	RAIN SHWR	DRZL	FRZG PCPN	SNOW	OTHER FRZN PCPN	HAIL	PCPN AT DB TIME	PCPN PAST HOUR	THDR LTNG	FOG WD PCPN	FOG WD PCPN PAST HR	SMOKE HAZE	SPRAY BLWG DUST	NO SIG WEA	
N	1.9	1.0	.5	.0	.0	.0	.0	3.4	.0	3.1	.7	.0	1.7	.0	91.0	
NE	1.1	.3	1.0	.0	.0	.0	.0	2.4	1.3	1.4	.8	.0	.7	.0	93.7	
E	1.8	1.1	1.6	.0	.0	.0	.0	4.5	1.1	1.8	1.1	.0	.8	.5	90.3	
SE	1.6	2.7	.9	.0	.0	.0	.0	5.2	1.2	.9	2.1	.0	.9	.0	89.7	
S	1.5	1.6	.9	.0	.0	.0	.0	4.1	1.4	.7	2.5	.0	.0	.0	91.4	
SW	1.3	2.7	.7	.0	.0	.0	.0	4.7	.8	.3	.2	.0	.0	.0	88.8	
W	1.9	3.5	1.0	.0	.0	.0	.0	6.4	3.8	.4	.6	.0	.0	.0	90.1	
NW	1.1	1.1	3.3	.0	.0	.0	.0	5.5	.0	.8	3.3	.0	.3	.0	.0	
VAR	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
CALM	3.2	3.2	.0	.0	.0	.0	.0	6.5	.0	.0	9.7	.0	.0	.0	83.9	
TOT PCT	1.5	1.8	1.0	.0	.0	.0	.0	4.3	1.2	1.1	1.4	.0	.5	.1	91.5	
TOT OBS:	1763															

TABLE 2

PERCENT FREQUENCY OF WEATHER OCCURRENCE BY HOUR

HOUR (GMT)	PRECIPITATION TYPE							OTHER WEATHER PHENOMENA							
	RAIN	RAIN SHWR	DRZL	FRZG PCPN	SNOW	OTHER FRZN PCPN	HAIL	PCPN AT OB TIME	PCPN PAST HOUR	THDR LTNG	FOG WD PCPN	FOG WD PCPN PAST HR	SMOKE HAZE	SPRAY BLWG DUST	NO SIG WEA
00603	1.4	1.9	1.0	.0	.0	.0	.0	4.3	1.4	.4	1.6	.0	.8	.0	91.6
06009	1.0	1.2	.7	.0	.0	.0	.0	2.9	1.7	.2	.7	.0	.5	.0	94.1
12015	1.4	1.8	1.4	.0	.0	.0	.0	4.6	.8	1.8	1.2	.0	.4	.0	91.2
18021	2.5	2.3	.8	.0	.0	.0	.0	5.5	.8	2.3	1.8	.0	.3	.3	89.4
TOT PCT	1.6	1.8	1.0	.0	.0	.0	.0	4.3	1.2	1.2	1.3	.0	.5	.1	91.6
TOT OBS:	1804														

TABLE 3

PERCENTAGE FREQUENCY OF WIND DIRECTION BY SPEED AND BY HOUR

WIND DIR	WIND SPEED (KNOTS)							TOTAL DBS	PCT FREQ	MEAN SPD	HOUR (GMT)							
	0-3	4-10	11-21	22-33	34-47	48+					00	03	06	09	12	15	18	21
N	.7	4.1	5.3	1.5	.1	.0		11.7	13.3		13.5	12.9	10.6	12.6	10.4	10.1	11.2	12.9
NE	.7	7.2	8.2	1.7	.1	.0		17.9	12.7		18.1	17.5	17.0	21.8	16.9	18.6	17.6	19.6
E	1.1	6.4	4.6	.2	.0	.0		12.3	9.8		11.4	13.9	9.5	11.2	13.8	15.0	11.6	13.6
SE	.9	5.2	3.3	.2	.0	.0		9.6	9.9		9.3	9.5	9.9	11.2	9.7	9.9	10.2	6.9
S	.9	6.7	6.4	1.4	.2	.0		15.5	12.4		16.6	14.0	15.2	13.0	15.3	16.2	16.5	14.7
SW	.5	5.5	7.2	2.8	.5	.1		16.8	15.1		16.3	16.3	17.2	16.4	17.6	16.8	17.2	14.2
W	.5	3.3	3.6	1.6	.1	.0		9.0	14.2		7.8	8.3	12.7	8.5	9.8	7.5	7.8	9.0
NW	.5	2.7	1.6	.4	.0	.0		5.2	11.0		5.2	4.7	5.8	4.1	4.8	5.4	5.7	6.5
VAR	.0	.0	.0	.0	.0	.0		.0	.0		.0	.0	.0	.0	.0	.0	.0	.0
CALM	1.9							1.9	.0		1.9	2.8	2.1	1.2	1.7	.4	2.1	2.6
TOT DBS	205	1106	1085	263	29	3	2691		12.3		526	323	390	165	528	232	374	153
TOT PCT	7.6	41.1	40.3	9.8	1.1	.1		100.0			100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0

TABLE 3A

WIND DIR	WIND SPEED (KNOTS)					41+	TOTAL DBS	PCT FREQ	MEAN SPD	HOUR (GMT)			
	0-6	7-16	17-27	28-40						00	06	12	18
N	2.3	5.6	3.7	.6	*			11.7	13.3	13.3	11.2	10.3	11.7
NE	2.9	10.1	4.3	.6	.0			17.9	12.7	17.9	18.4	17.4	18.2
E	3.7	7.2	1.4	*	.0			12.3	9.8	12.3	10.0	14.2	12.1
SE	2.9	5.4	1.3	.1	.0			9.6	9.9	9.4	10.3	9.8	9.3
S	3.3	8.1	3.4	.7	*			15.5	12.4	15.6	14.5	15.6	16.0
SW	2.2	7.7	5.3	1.3	.2			16.8	15.1	16.3	17.0	17.3	16.4
W	1.6	4.2	2.6	.6	*			9.0	14.2	8.0	11.4	9.1	8.2
NW	1.5	2.6	1.0	*	.0			5.2	11.0	5.0	5.3	5.0	5.9
VAR	.0	.0	.0	.0	.0			.0	.0	.0	.0	.0	.0
CALM	1.9							1.9	.0	2.2	1.8	1.3	2.3
TOT DBS	604	1370	606	103	8	2691			12.3	849	555	760	527
TOT PCT	22.4	50.9	22.5	3.8	.3			100.0		100.0	100.0	100.0	100.0

PERIOD: (PRIMARY) 1912-1971  
(OVER-ALL) 1858-1971

MARCH

AREA 0015 AUSTRALIAN BIGHT SW  
35.65 126.5E

TABLE 4

PERCENTAGE FREQUENCY OF WIND SPEED BY HOUR (GMT)

HOUR	CALM	1-3	4-10	WIND SPEED (KNOTS)				MEAN	PCT FREQ	TOTAL OBS
				11-21	22-33	34-47	48+			
00003	2.2	6.0	38.6	42.2	9.2	1.5	.2	12.5	100.0	849
06009	1.8	4.9	38.4	44.5	9.5	.9	.0	12.7	100.0	555
12015	1.3	6.2	43.9	37.2	10.8	.5	.0	12.1	100.0	760
18021	2.3	5.5	43.8	37.4	9.5	1.3	.2	11.8	100.0	527
TOT	51	154	1106	1085	263	29	3	12.3		2691
PCT	1.9	5.7	41.1	40.3	9.8	1.1	.1	100.0		

TABLE 5

PCT FREQ OF TOTAL CLOUD AMOUNT (EIGHTHS)  
BY WIND DIRECTION

WIND DIR	0-2	3-4	5-7	8 & OBSCD	TOTAL OBS	MEAN CLOUD COVER
N	3.6	1.5	4.4	2.2	4.5	
NE	5.3	2.5	6.3	3.1	4.4	
E	1.1	.8	4.0	3.4	5.9	
SE	1.1	1.7	3.4	2.7	5.7	
S	1.7	3.3	7.1	4.7	5.7	
SW	2.8	3.5	7.6	4.3	5.4	
W	1.1	1.8	3.7	3.3	5.8	
NW	2.0	.9	1.9	1.2	4.3	
VAR	.0	.0	.0	.0	.0	
CALW	.7	.3	.4	.3	3.5	
TOT OBS	223	185	441	284	1135	5.2
TOT PCT	19.6	16.3	38.9	25.2	100.0	

TABLE 6

PERCENTAGE FREQUENCY OF CEILING HEIGHTS (FT, NH >4/8)  
AND OCCURRENCE OF NH <5/8 BY WIND DIRECTION

WIND DIR	000	150	300	600	1000	2000	3500	5000	6500	8000+	NH <5/8 ANY HGT	TOTAL OBS
N	149	299	599	999	1999	3499	4999	6499	7999			
NE	.1	.0	.2	.5	1.6	1.1	1.1	.1	.1	*	6.9	
E	.0	.0	.1	1.2	2.0	1.7	1.6	.4	.1	.2	10.0	
SE	.0	*	.0	1.0	1.3	1.8	1.4	.3	.0	.1	3.7	
S	.0	*	.0	.8	2.3	1.0	.5	.4	.2	.0	3.7	
SW	.0	.0	.3	1.2	3.5	2.4	1.8	.4	.2	.2	6.9	
W	.0	.0	.0	2.4	3.6	2.5	.9	.3	.0	.1	8.3	
NW	.0	.0	.0	1.2	2.2	1.3	.7	.1	.0	.2	4.2	
VAR	.0	.0	.0	.4	.9	.5	.6	*	.0	.1	3.5	
CALW	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
TOT OBS	223	185	441	284	1135	5.2						
TOT PCT	19.6	16.3	38.9	25.2	100.0							

TABLE 7

CUMULATIVE PCT FREQ OF SIMULTANEOUS OCCURRENCE  
OF CEILING HEIGHT (NH >4/8) AND VSBY (NM)

CEILING (FEET)	VSBY (NM)				OR				OR			
	>10	>5	>2	>1	>1/2	>1/4	>50YD	>0	>10	>5	>2	>1
* OR >6500	1.4	1.4	1.4	1.4	1.4	1.4	1.4	1.4	1.4	1.4	1.4	1.4
* OR >5000	3.1	3.4	3.4	3.4	3.4	3.4	3.4	3.4	3.4	3.4	3.4	3.4
* OR >3500	11.2	12.0	12.1	12.1	12.1	12.1	12.1	12.1	12.1	12.1	12.1	12.1
* OR >2000	23.1	24.8	24.9	24.9	24.9	24.9	24.9	24.9	24.9	24.9	24.9	24.9
* OR >1000	38.5	41.7	42.3	42.3	42.3	42.3	42.3	42.3	42.3	42.3	42.3	42.3
* OR >600	45.4	50.3	50.8	50.8	50.9	50.9	50.9	50.9	50.9	50.9	50.9	50.9
* OR >300	45.7	50.7	51.3	51.3	51.4	51.4	51.4	51.4	51.4	51.4	51.4	51.4
* OR >150	45.7	50.8	51.4	51.4	51.5	51.5	51.5	51.5	51.5	51.5	51.5	51.5
* OR >0	45.8	50.9	51.5	51.5	51.6	51.6	51.6	51.6	51.6	51.6	51.6	51.6
TOTAL	527	565	592	592	593	593	593	593	593	593	593	593

TOTAL NUMBER OF OBS: 1150

PCT FREQ NH <5/8: 48.4

TABLE 7A

PERCENTAGE FREQ OF LOW CLOUDS (EIGHTHS)

0	1	2	3	4	5	6	7	8	OBSCD	TOTAL OBS
12.0	8.5	9.5	8.3	9.4	8.1	9.1	14.2	21.0	.0	1258

PERIOD: (PRIMARY) 1912-1971  
(OVER-ALL) 1858-1971

MARCH

AREA 0015 AUSTRALIAN BIGHT SW  
35.6S 126.5E

TABLE 8

PERCENT FREQ OF WIND DIRECTION VS OCCURRENCE OR NON-OCCURRENCE OF  
PRECIPITATION WITH VARYING VALUES OF VISIBILITY

VISBY (NM)		N	NE	E	SE	S	SW	W	NW	VAR	CALM	PCT	TOTAL OBS
<1/2	PCP	.0	.0	.0	.0	*	*	.0	.0	.0	.0	.1	
	NO PCP	.0	.0	.0	.0	.1	.0	.1	.1	.0	.1	.4	
	TOT %	.0	.0	.0	.0	.1	*	.1	.1	.0	.1	.5	
1/2<1	PCP	.0	.1	.0	*	.1	.1	*	.1	.0	.0	.3	
	NO PCP	.0	.1	*	.0	.0	.0	.0	.1	.0	.1	.2	
	TOT %	.0	.1	*	*	.1	.1	*	.1	.0	.1	.6	
1<2	PCP	*	*	.0	.1	.0	.0	.0	.0	.0	.0	.1	
	NO PCP	.0	.0	.1	.1	.0	.1	.0	.0	.0	.0	.2	
	TOT %	*	*	.1	.1	.0	.1	.0	.0	.0	.0	.3	
2<5	PCP	.1	.1	.1	.1	.1	.0	.0	.0	.0	.0	.3	
	NO PCP	*	.3	.1	.0	.0	*	*	.0	.0	.0	.5	
	TOT %	.1	.4	.2	.1	.1	*	*	.0	.0	.0	.9	
5<10	PCP	.2	.1	.4	.2	.4	.5	.3	.1	.0	.1	2.3	
	NO PCP	3.7	5.0	3.7	2.7	3.3	5.3	2.5	.8	.0	.3	27.3	
	TOT %	3.9	5.1	4.1	2.9	3.7	5.9	2.8	.9	.0	.4	29.7	
10+	PCP	.1	.1	.1	.1	.1	.2	.3	.1	.0	.1	1.1	
	NO PCP	7.3	11.4	6.3	6.2	11.7	12.4	6.6	3.9	.0	1.1	67.0	
	TOT %	7.4	11.5	6.4	6.4	11.8	12.6	6.8	4.0	.0	1.2	68.1	
TOT OBS													
TOT PCT													
1763													
11.4 17.2 10.8 9.5 15.8 18.7 9.8 5.1 .0 1.8 100.0													

TABLE 9

PERCENT FREQ OF WIND DIRECTION VS WIND SPEED  
WITH VARYING VALUES OF VISIBILITY

VISBY (NM)	SPD KTS	N	NE	E	SE	S	SW	W	NW	VAR	CALM	PCT	TOTAL OBS
<1/2	0-3	.0	.0	.0	.0	.0	.0	.1	.0	.0	.1	.2	
	4-10	.0	.0	.0	.0	*	*	.0	.1	.0	.0	.2	
	11-21	.0	.0	.0	.0	.1	.0	.0	.0	.0	.0	.1	
	22+	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
	TOT %	.0	.0	.0	.0	.1	*	.1	.1	.0	.1	.4	
1/2<1	0-3	.0	.0	.0	.0	.0	.0	.0	.0	.0	.1	.1	
	4-10	.0	.1	*	.0	.1	.0	.0	.1	.0	.0	.3	
	11-21	.0	.0	.0	*	*	.0	.0	.0	.0	.0	.1	
	22+	.0	.0	.0	.0	.0	.1	*	.0	.0	.0	.1	
	TOT %	.0	.1	*	*	.1	.1	*	.1	.0	.1	.5	
1<2	0-3	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
	4-10	*	*	.1	.0	.0	.0	*	*	.0	.0	.2	
	11-21	.0	.0	*	.1	.0	.1	.0	.0	.0	.0	.2	
	22+	.0	.0	.0	.1	.0	.0	.0	.0	.0	.0	.1	
	TOT %	*	*	.1	.1	.0	.1	*	*	.0	.0	.4	
2<5	0-3	.0	*	*	.0	.0	.0	.1	.0	.0	.0	.1	
	4-10	.1	.1	.1	.1	.1	.2	.1	.1	.0	.0	.7	
	11-21	.1	.1	.0	.0	*	*	.0	.0	.0	.0	.2	
	22+	*	.2	.1	.0	.1	.0	.0	.0	.0	.0	.3	
	TOT %	.2	.4	.1	.1	.1	.2	.1	.1	.0	.0	1.3	
5<10	0-3	.1	.3	.3	.3	.4	.2	.2	.1	.0	.4	2.1	
	4-10	1.4	1.7	2.1	1.2	1.4	1.5	.7	.5	.0	.0	10.4	
	11-21	1.5	2.2	1.4	1.2	1.6	2.2	1.0	.2	.0	.0	11.2	
	22+	.8	.6	.0	*	.3	1.6	1.0	.3	.0	.0	4.6	
	TOT %	3.8	4.8	3.8	2.7	3.7	5.4	2.9	1.0	.0	.4	28.3	
10+	0-3	.3	.4	.7	.5	.5	.4	.1	.2	.0	1.2	4.3	
	4-10	3.0	5.4	3.3	4.3	5.5	4.1	2.5	2.0	.0	.0	30.2	
	11-21	3.7	5.3	2.9	1.9	4.9	6.0	3.0	1.6	.0	.0	29.4	
	22+	.7	.6	.1	.1	.7	2.0	1.0	.1	.0	.0	5.2	
	TOT %	7.7	11.8	7.0	6.8	11.5	12.6	6.6	3.9	.0	1.2	69.2	
TOT OBS													
TOT PCT													
1981													
11.7 17.1 11.0 9.7 15.6 18.3 9.7 5.2 .0 1.7 100.0													

PERIOD: (PRIMARY) 1912-1971  
(OVER-ALL) 1858-1971

MARCH

AREA 0015 AUSTRALIAN BIGHT SW  
35.65 126.5E

TABLE 10

PERCENT FREQUENCY OF CEILING HEIGHTS (FEET, NH >4/8) AND  
OCCURRENCE OF NH <5/8 BY HOUR

HOUR (GMT)	000 149	150 299	300 599	600 999	1000 1999	2000 3499	3500 4999	5000 6499	5500 7999	8000+	TOTAL	NH <5/8 ANY HGT	TOTAL OBS
00003	.3	.0	1.0	9.2	18.7	15.4	11.8	1.3	.7	.7	59.0	41.0	305
06009	.0	.0	.6	8.8	13.8	11.9	7.9	1.6	.6	.6	45.9	54.1	318
12015	.0	.0	.0	7.9	17.2	9.6	5.8	2.4	.3	.7	44.0	56.0	291
18021	.0	.4	.4	7.2	17.6	12.2	7.9	2.5	.4	1.4	50.0	50.0	278
TOT	1	1	6	99	200	147	100	23	6	10	593	599	1192
PCT	.1	.1	.5	8.3	16.8	12.3	8.4	1.9	.5	.8	49.7	50.3	100.0

TABLE 11

PERCENT FREQUENCY VSBY (NM) BY HOUR

HOUR (GMT)	<1/2	1/2<1	1<2	2<5	5<10	10+	TOTAL OBS
00003	.4	.4	.5	1.3	31.4	66.1	555
06009	.4	.2	.0	1.1	21.2	77.1	458
12015	.5	.3	.5	.9	36.9	60.8	572
18021	.2	1.1	.2	1.8	23.1	73.5	437
TOT	8	10	7	25	583	1389	2022
PCT	.4	.5	.3	1.2	28.8	68.7	100.0

TABLE 12

CUMULATIVE PCT FREQ OF RANGES OF VSBY (NM) AND/OR  
CEILING HGT (FEET, NH >4/8) BY HOUR

HOUR (GMT)	<150 <50YD	<600 <1	<1000 <5	1000+ AND 5+	NH <5/8 AND 5+	TOTAL OBS
00003	.3	1.3	11.1	49.5	39.4	297
06009	.0	1.0	10.5	37.7	51.8	305
12015	.0	.4	9.6	36.9	53.5	282
18021	.0	1.1	9.8	42.9	47.4	266
TOT	1	11	118	480	552	1150
PCT	.1	1.0	10.3	41.7	48.0	100.0

TABLE 13

PERCENT FREQUENCY OF RELATIVE HUMIDITY BY TEMP

TEMP F	0-29	30-39	40-49	50-59	60-69	70-79	80-89	90-100	TOTAL OBS	PCT FREQ
75/79	.0	.0	.0	.1	.1	.0	.0	.0	2	.1
70/74	.0	.0	.0	.1	.3	1.0	1.1	.2	36	2.7
65/69	.0	.0	.0	1.1	4.0	6.9	13.2	10.5	479	35.7
60/64	.0	.0	.2	2.4	15.4	18.5	11.5	5.1	712	53.1
55/59	.0	.0	.0	.6	2.1	3.1	1.6	1.0	112	8.3
50/54	.0	.0	.0	.0	.0	.0	.1	.0	1	.1
TOTAL	0	0	3	57	293	395	369	225	1342	100.0
PCT	.0	.0	.2	4.2	21.8	29.4	27.5	16.8		

TABLE 14

PERCENT FREQUENCY OF WIND DIRECTION BY TEMP

N	NE	E	SE	S	SW	W	NW	VAR	CALM
.0	.0	.1	.0	.1	.0	.0	.0	.0	.0
.6	.8	.2	.2	.3	.1	.2	.2	.0	.1
7.8	9.9	2.8	2.4	1.6	3.4	4.0	3.2	.0	.5
3.8	6.7	6.4	5.7	10.5	11.8	4.7	2.1	.0	1.3
.0	.1	.6	1.7	3.1	2.2	.4	.1	.0	.1
.0	.0	.0	.0	*	*	.0	.0	.0	.0
12.2	17.5	10.1	10.1	15.7	17.6	9.3	5.6	.0	1.9

TABLE 15

MEANS, EXTREMES AND PERCENTILES OF TEMP (DEG F) BY HOUR

HOUR (GMT)	MAX	99%	95%	50%	5%	1%	MIN	MEAN	TOTAL OBS
00003	77	73	69	64	59	55	52	64.1	825
06009	77	72	70	65	60	57	55	65.2	535
12015	73	70	68	63	58	56	50	63.1	762
18021	71	69	67	63	58	57	54	62.6	531
TOT	77	71	69	64	59	56	50	63.7	2653

TABLE 16

PERCENT FREQUENCY OF RELATIVE HUMIDITY BY HOUR

HOUR (GMT)	0-29	30-59	60-69	70-79	80-89	90-100	MEAN	TOTAL OBS
00003	.0	6.2	23.7	29.4	25.1	15.5	77	354
06009	.0	5.1	27.2	27.2	29.9	10.7	76	335
12015	.0	3.8	18.0	29.0	27.3	21.9	79	366
18021	.0	2.5	18.3	33.1	27.4	18.6	79	317
TOT	0	61	299	406	376	230	78	1372

## MARCH

PERIOD: (PRIMARY) 1912-1971  
(OVER-ALL) 1858-1971

AREA 0015 AUSTRALIAN BIGHT SW  
35.6S 126.5E

TABLE 17

PCT FREQ OF AIR TEMPERATURE (DEG F) AND THE OCCURRENCE OF FOG (WITHOUT PRECIPITATION)  
VS AIR-SEA TEMPERATURE DIFFERENCE (DEG F)

AIR-SEA TMP DIF	49 52	53 56	57 60	61 64	65 68	69 72	73 76	77 80	TOT	W FOG	WD FOG
11/13	.0	.0	.0	.0	.0	.0	.1	.0	1	.0	.1
9/10	.0	.0	.0	.0	.0	.1	.1	.1	3	.0	.2
7/8	.0	.0	.0	.0	.1	.1	.0	.0	3	.0	.2
6	.0	.0	.0	.1	.0	.2	.1	.0	5	.0	.3
5	.0	.0	.1	.1	.3	.7	.1	.0	18	.0	1.2
4	.0	.0	.1	.3	.7	.6	.1	.0	26	.0	1.7
3	.0	.0	.0	.4	2.2	1.1	.0	.0	57	.1	3.7
2	.0	.0	.2	.7	4.5	1.2	.0	.0	101	.1	6.5
1	.0	.0	.1	2.6	6.5	1.0	.0	.0	158	.2	10.2
0	.0	.0	.4	5.6	7.7	.3	.0	.0	213	.0	13.9
-1	.0	.0	1.0	11.3	6.6	.1	.0	.0	291	.2	18.9
-2	.1	.1	1.3	8.6	2.7	.0	.0	.0	197	.3	12.6
-3	.0	.0	3.6	7.2	.7	.0	.0	.0	176	.3	11.3
-4	.0	.0	2.6	5.0	.3	.0	.0	.0	120	.0	7.9
-5	.0	.2	2.6	1.8	.2	.0	.0	.0	73	.0	4.8
-6	.0	.3	1.6	.7	.1	.0	.0	.0	43	.0	2.8
-7/-8	.0	.3	1.0	.9	.0	.0	.0	.0	32	.0	2.1
-9/-10	.1	.1	.1	.3	.0	.0	.0	.0	8	.0	.5
-11/-13	.0	.0	.1	.0	.0	.0	.0	.0	2	.0	.1
TOTAL	2	14	226	698	497	84	5	1	1527	18	1509
PCT	.1	.9	14.8	45.7	32.5	5.5	.3	.1	100.0	1.2	98.8

PERIOD: (OVER-ALL) 1963-1971

TABLE 18

PCT FREQ OF WIND SPEED (KTS) AND DIRECTION VERSUS SEA HEIGHTS (FT)

HGT	1-3	4-10	11-21	22-33	34-47	48+	PCT	1-3	4-10	11-21	22-33	34-47	48+	PCT
<1	.4	.4	.0	.0	.0	.0	.9	.3	.0	.2	.0	.0	.0	1.1
1-2	.2	1.5	.7	.0	.0	.0	2.5	.2	4.4	1.5	.0	.0	.0	6.2
3-4	.0	2.1	2.1	.1	.0	.0	4.3	.0	2.9	3.5	.0	.0	.0	6.3
5-6	.0	.4	2.2	.3	.0	.0	2.8	.0	.2	2.6	.0	.0	.0	2.8
7	.0	.0	.9	.2	.0	.0	1.1	.0	.0	.4	.2	.0	.0	.5
8-9	.0	.0	.4	.2	.0	.0	.6	.0	.0	.4	.3	.0	.0	.7
10-11	.0	.0	.0	.2	.0	.0	.2	.0	.0	.2	.5	.0	.0	.6
12	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.2	.0	.0	.2
13-16	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
17-19	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
20-22	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
23-25	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
26-32	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
33-40	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
41-48	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
49-60	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
61-70	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
71-86	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
87+	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
TOT PCT	.7	4.5	6.3	.9	.0	.0	12.3	.6	8.1	8.6	1.1	.0	.0	18.4

HGT	1-3	4-10	11-21	22-33	34-47	48+	PCT	1-3	4-10	11-21	22-33	34-47	48+	PCT
<1	.8	.4	.0	.0	.0	.0	1.1	.5	.0	.0	.0	.0	.0	1.0
1-2	.2	1.3	1.1	.0	.0	.0	2.6	.0	1.3	.3	.0	.0	.0	1.6
3-4	.0	.5	1.4	.0	.0	.0	1.9	.0	1.5	1.7	.0	.0	.0	3.3
5-6	.0	.5	1.8	.0	.0	.0	2.3	.0	.0	1.4	.0	.0	.0	.4
7	.0	.0	.5	.0	.0	.0	.5	.0	.0	.7	.0	.0	.0	.7
8-9	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
10-11	.0	.0	.0	.2	.0	.0	.2	.0	.0	.0	.0	.0	.0	.0
12	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
13-16	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
17-19	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
20-22	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
23-25	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
26-32	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
33-40	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
41-48	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
49-60	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
61-70	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
71-86	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
87+	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
TOT PCT	.9	2.6	4.8	.2	.0	.0	8.6	.5	3.4	3.1	.0	.0	.0	7.1



PERIOD: (OVER-ALL) 1963-1971

MARCH

AREA 0015 AUSTRALIAN BIGHT SW  
35.65 126.5E

TABLE 18 (CONT)

PCT FREQ OF WIND SPEED (KTS) AND DIRECTION VERSUS SEA HEIGHTS (FT)

HGT	1-3	4-10	11-21	22-33	34-47	48+	PCT	1-3	4-10	11-21	22-33	34-47	48+	PCT
<1	.2	1.5	.0	.0	.0	.0	1.6	.0	.4	.0	.0	.0	.0	.4
1-2	.1	2.7	.9	.0	.0	.0	3.7	.2	1.3	1.0	.0	.0	.0	2.4
3-4	.0	1.5	3.5	.2	.0	.0	5.1	.0	2.2	3.2	.2	.0	.0	5.6
5-6	.0	.7	2.8	.4	.0	.0	3.9	.0	.9	4.1	1.1	.2	.0	6.3
7	.0	.0	1.2	.2	.0	.0	1.3	.0	.2	.9	.9	.0	.0	1.9
8-9	.0	.0	.2	.1	.0	.0	.3	.0	.0	.0	1.1	.0	.0	1.1
10-11	.0	.0	.0	.3	.0	.0	.3	.0	.0	.0	.5	.0	.0	.5
12	.0	.0	.0	.0	.0	.0	.0	.0	.2	.0	.2	.0	.0	.3
13-16	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
17-19	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
20-22	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.2	.0	.0	.2
23-25	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
26-32	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
33-40	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
41-48	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
49-60	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
61-70	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
71-86	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
87+	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
TOT PCT	.3	6.3	8.5	1.2	.0	.0	16.2	.2	5.1	9.2	3.9	.4	.0	18.8

HGT	1-3	4-10	11-21	22-33	34-47	48+	PCT	1-3	4-10	11-21	22-33	34-47	48+	PCT	TOTAL PCT
<1	.2	.4	.0	.0	.0	.0	.5	.4	.6	.0	.0	.0	.0	.9	
1-2	.0	1.9	.3	.0	.0	.0	2.2	.0	1.5	.0	.0	.0	.0	1.5	
3-4	.0	1.3	.7	.0	.0	.0	2.1	.0	1.2	.6	.0	.0	.0	1.9	
5-6	.0	.3	2.6	.4	.1	.0	3.4	.0	.2	1.0	.2	.0	.0	1.3	
7	.0	.0	1.1	.4	.0	.0	1.5	.0	.0	.4	.0	.0	.0	.4	
8-9	.0	.0	.2	.3	.0	.0	.4	.0	.0	.0	.0	.0	.0	.0	
10-11	.0	.0	.0	.3	.0	.0	.3	.0	.0	.0	.0	.0	.0	.0	
12	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
13-16	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
17-19	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
20-22	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
23-25	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
26-32	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
33-40	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
41-48	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
49-60	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
61-70	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
71-86	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
87+	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
TOT PCT	.2	3.9	4.9	1.4	.1	.0	10.5	.4	3.4	2.0	.2	.0	.0	6.0	97.8

WIND SPEED (KTS) VS SEA HEIGHT (FT)

HGT	0-3	4-10	11-21	22-33	34-47	48+	PCT	TOT OBS
<1	5.2	5.0	.2	.0	.0	.0	10.3	
1-2	1.1	15.8	5.8	.0	.0	.0	22.7	
3-4	.0	13.1	16.6	.5	.0	.0	30.2	
5-6	.0	3.1	17.4	2.3	.3	.0	23.2	
7	.0	.2	5.9	1.7	.0	.0	7.8	
8-9	.0	.0	1.1	2.0	.0	.0	3.1	
10-11	.0	.0	.2	1.9	.0	.0	2.0	
12	.0	.2	.0	.3	.0	.0	.5	
13-16	.0	.0	.0	.0	.0	.0	.0	
17-19	.0	.0	.0	.0	.0	.0	.0	
20-22	.0	.0	.0	.0	.2	.0	.2	
23-25	.0	.0	.0	.0	.0	.0	.0	
26-32	.0	.0	.0	.0	.0	.0	.0	
33-40	.0	.0	.0	.0	.0	.0	.0	
41-48	.0	.0	.0	.0	.0	.0	.0	
49-60	.0	.0	.0	.0	.0	.0	.0	
61-70	.0	.0	.0	.0	.0	.0	.0	
71-86	.0	.0	.0	.0	.0	.0	.0	
87+	.0	.0	.0	.0	.0	.0	.0	
TOT PCT	6.3	37.4	47.1	8.8	.5	.0	100.0	639

PERIOD: (OVER-ALL) 1949-1971

TABLE 19

PERCENT FREQUENCY OF WAVE HEIGHT (FT) VS WAVE PERIOD (SECONDS)

PERIOD (SEC)	<1	1-2	3-4	5-6	7	8-9	10-11	12	13-16	17-19	20-22	23-25	26-32	33-40	41-48	49-60	61-70	71-86	87+	TOTAL	MEAN HGT
<6	1.2	4.1	6.4	2.6	2.2	1.1	.8	.1	.1	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	183	4
6-7	.0	.6	3.0	4.9	6.2	2.7	.7	.6	.2	.0	.1	.0	.0	.0	.0	.0	.0	.0	.0	185	6
8-9	.0	.0	1.1	4.8	5.0	3.0	4.3	1.4	1.1	.0	.2	.0	.0	.0	.0	.0	.0	.0	.0	205	8
10-11	.0	.1	1.4	2.7	3.2	3.4	2.2	1.4	2.1	.3	.4	.0	.1	.0	.0	.0	.0	.0	.0	170	9
12-13	.0	.0	.2	.5	1.1	.6	1.2	1.0	1.8	.1	.2	.3	.2	.0	.0	.0	.0	.0	.0	72	11
>13	.0	.0	.0	.7	.3	.8	.6	.4	1.5	.5	.3	.0	.0	.0	.0	.0	.0	.0	.0	51	11
INDET	1.1	1.2	2.2	1.3	1.8	1.2	1.0	.7	.6	.1	.0	.0	.0	.0	.0	.0	.0	.0	.0	112	6
TOTAL	23	59	141	171	195	125	107	56	74	10	12	3	3	0	0	0	0	0	0	979	7
PCT	2.3	6.0	14.4	17.5	19.9	12.8	10.9	5.7	7.6	1.0	1.2	.3	.3	.0	.0	.0	.0	.0	.0	100.0	

PERIOD: (PRIMARY) 1913-1969  
(OVER-ALL) 1859-1969

APRIL

AREA 0015 AUSTRALIAN BIGHT SW  
35.65 126.5F

TABLE 1

PERCENT FREQUENCY OF WEATHER OCCURRENCE BY WIND DIRECTION

WIND DIR	PRECIPITATION TYPE							OTHER WEATHER PHENOMENA							
	RAIN	RAIN SHWR	DRZL	FRZG PCPN	SNOW	OTHER FRZN PCPN	HAIL	PCPN AT DB TIME	PCPN PAST HOUR	THOR LTNG	FOG WD PCPN	FOG WD PCPN PAST HR	SMOKE HAZE	SPRAY BLWG DUST BLWG SNOW	NO SIG WEAT
N	4.0	1.1	1.6	.0	.0	.0	.0	6.7	1.2	.8	2.9	.0	1.4	.0	87.0
NE	4.1	1.6	1.4	.0	.0	.0	.0	7.1	1.9	2.9	.6	.0	.9	.0	87.0
E	6.6	1.4	1.1	.0	.0	.0	.0	9.0	1.8	1.4	.3	.0	.3	.0	87.2
SE	3.6	3.0	3.2	.0	.0	.0	.0	9.9	1.6	.4	2.4	.0	.8	.0	84.9
S	1.9	7.1	1.3	.0	.0	.0	.2	10.5	.8	.2	1.4	.0	.0	.0	87.3
SW	2.3	5.5	3.9	.0	.0	.0	.2	11.9	1.8	1.2	.4	.0	.0	.0	84.8
W	1.9	7.4	1.3	.0	.0	.0	.0	10.7	5.0	1.8	.8	.0	.0	.0	81.7
NW	1.7	5.7	.9	.0	.0	.0	.0	8.3	4.0	4.0	2.1	.0	.0	.0	81.6
VAR	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
CALM	.0	4.3	4.3	.0	.0	.0	.0	8.7	.0	4.3	13.0	.0	.0	.0	73.9
TOT PCT	3.1	4.3	1.9	.0	.0	.0	.1	9.4	2.3	1.6	1.4	.0	.4	.0	85.0
TOT OBS:	1737														

TABLE 2

PERCENT FREQUENCY OF WEATHER OCCURRENCE BY HOUR

HOUR (GMT)	PRECIPITATION TYPE							OTHER WEATHER PHENOMENA								
	RAIN	RAIN SHWR	DRZL	FRZG PCPN	SNOW	OTHER FRZN PCPN	HAIL	PCPN AT DB TIME	PCPN PAST HOUR	THOR LTNG	FOG WD PCPN	FOG WD PCPN PAST HR	SMOKE HAZE	SPRAY BLWG BLWG	DUST SNOW	SIG WEA
00003	3.0	4.1	.8	.0	.0	.0	.0	7.9	2.8	.0	2.2	.0	.8	.0	.0	86.2
06009	3.4	2.7	1.7	.0	.0	.0	.0	7.8	1.9	.0	1.5	.0	.2	.0	.0	88.6
12015	2.0	5.0	1.6	.0	.0	.0	.2	8.9	1.4	3.2	1.0	.0	.4	.0	.0	85.3
18021	4.3	5.3	4.0	.0	.0	.0	.0	13.5	2.8	3.3	.8	.0	.0	.0	.0	80.0
TOT PCT	3.1	4.3	1.9	.0	.0	.0	.1	9.4	2.2	1.6	1.4	.0	.4	.0	.0	85.1
TOT OBS:	1801															

TABLE 3

PERCENTAGE FREQUENCY OF WIND DIRECTION BY SPEED AND BY HOUR

WIND DIR	WIND SPEED (KNOTS)							TOTAL OBS	PCT FREQ	MEAN SPD	HOUR (GMT)							
	0-3	4-10	11-21	22-33	34-47	48+					00	03	06	09	12	15	18	21
N	.7	5.0	5.5	1.5	.1	.0		12.8	12.8		13.4	16.4	13.6	10.7	10.5	13.8	12.8	11.1
NE	.4	5.5	6.5	1.3	*	*		13.7	12.7		13.0	12.9	14.7	14.5	13.1	13.1	15.6	13.0
E	.8	4.6	3.8	.4	*	*		9.6	10.7		10.4	7.9	11.0	7.9	8.9	10.7	9.4	9.3
SE	.6	3.1	2.7	.5	*	.0		6.9	11.6		5.7	7.0	6.9	9.3	8.4	6.9	5.8	6.7
S	.4	4.7	4.8	1.0	.3	.0		11.3	13.1		12.2	8.2	12.8	5.9	12.1	9.9	13.0	10.4
SW	.5	5.6	7.2	3.5	.5	.1		17.3	15.6		17.1	17.3	15.0	20.7	18.6	16.0	16.6	20.2
W	.6	5.4	7.4	2.7	1.3	.1		17.4	16.1		18.1	17.9	15.5	20.3	16.8	17.8	16.6	18.7
NW	.4	3.2	3.5	1.2	.2	.0		8.6	14.1		9.2	9.9	9.6	7.9	8.2	8.0	7.3	7.0
VAR	.0	.0	.0	.0	.0	.0		.0	.0		.0	.0	.0	.0	.0	.0	.0	.0
CALM	2.4							2.4	.0		.8	2.5	.8	2.8	3.4	3.8	3.0	3.7
TOT OBS	158	925	1033	302	61	5	2494		13.4		489	278	367	145	499	213	368	135
TOT PCT	6.7	37.1	41.4	12.1	2.4	.2		100.0			100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0

TABLE 3A

WIND DIR	WIND SPEED (KNOTS)					TOTAL OBS	PCT FREQ	MEAN SPD	HOUR (GMT)				
	0-6	7-16	17-27	28-40	41+				00	06	12	18	21
N	2.5	6.7	3.2	.5	.0		12.8	12.8	14.5	12.7	11.5	12.3	
NE	2.2	8.1	3.1	.3	*		13.7	12.7	13.0	14.6	13.1	14.9	
E	2.6	5.5	1.4	*	.1		9.6	10.7	9.5	10.2	9.4	9.3	
SE	1.8	3.4	1.6	.2	*		6.9	11.6	6.2	7.6	8.0	6.0	
S	2.2	5.7	2.7	.5	.1		11.3	13.1	10.8	10.8	11.4	12.3	
SW	2.3	7.7	5.1	2.0	.2		17.3	15.6	17.2	16.6	17.8	17.6	
W	2.6	7.4	4.9	2.1	.4		17.4	16.1	18.1	16.9	17.1	17.1	
NW	1.5	4.0	2.4	.5	.1		8.6	14.1	9.4	9.1	8.1	7.3	
VAR	.0	.0	.0	.0	.0		.0	.0	.0	.0	.0	.0	
CALM	2.4						2.4	.0	1.4	1.4	3.5	3.2	
TOT OBS	501	1212	609	150	22	2494		13.4	767	512	712	503	
TOT PCT	20.1	48.6	24.4	6.0	.9		100.0		100.0	100.0	100.0	100.0	

APRIL

PERIOD: (PRIMARY) 1913-1969  
(OVER-ALL) 1859-1969AREA 0015 AUSTRALIAN BIGHT SW  
35.65 126.5E

TABLE 4

PERCENTAGE FREQUENCY OF WIND SPEED BY HOUR (GMT)

HOUR	CALM	1-3	4-10	WIND SPEED (KNOTS)			48+	MEAN	PCT FREQ	TOTAL OBS
				11-21	22-33	34-47				
00003	1.4	5.7	36.9	41.1	12.8	2.1	.0	13.3	100.0	767
06009	1.4	4.1	33.4	46.1	12.9	2.0	.2	13.9	100.0	512
12015	3.5	4.1	38.1	38.9	12.1	3.2	.1	13.3	100.0	712
18021	3.2	3.0	39.8	40.8	10.3	2.4	.6	13.2	100.0	503
TOT	59	109	925	1033	307	61	5	13.4		2494
PCT	2.4	4.4	37.1	41.4	12.1	2.4	.2	100.0		

TABLE 5

PCT FREQ OF TOTAL CLOUD AMOUNT (EIGHTHS)  
BY WIND DIRECTION

WIND DIR	0-2	3-4	5-7	8 & OBSCD	TOTAL OBS	MEAN CLOUD COVER
N	2.9	2.2	5.3	2.5	4.8	5.2
NE	3.3	2.0	6.5	3.9	6.2	5.2
E	1.0	.9	3.6	4.1	6.4	5.6
SE	.2	1.1	2.3	2.8	6.4	5.9
S	1.7	2.5	5.8	4.0	5.5	5.9
SW	1.6	2.3	7.0	4.6	5.5	5.0
W	2.4	2.6	7.3	4.3	5.5	5.0
NW	2.2	.6	3.4	1.8	5.0	.0
VAR	.0	.0	.0	.0	.0	.0
CALM	.3	.3	.2	.4	4.7	.0
TOT OBS	166	153	436	298	1053	5.5
TOT PCT	15.8	14.5	41.4	28.3	100.0	

TABLE 6

PERCENTAGE FREQUENCY OF CEILING HEIGHTS (FT, NH >4/8)  
AND OCCURRENCE OF NH <5/8 BY WIND DIRECTION

000 149	150 299	300 599	600 999	1000 1999	2000 3499	3500 4999	5000 6499	6500 7999	8000+	NH <5/8 ANY HGT	TOTAL OBS
.0	.0	.1	.5	2.1	1.6	.3	.2	.0	.3	7.8	
.0	.0	.1	1.4	2.6	1.5	1.1	.4	.0	.7	7.9	
.0	.0	.3	.9	2.3	2.1	.5	.5	*	.0	3.1	
.0	.1	.1	.3	1.7	1.3	.3	.1	*	.0	2.4	
.0	.0	.2	1.6	3.4	1.7	1.2	.0	.1	.1	5.7	
.0	.0	.1	1.7	3.9	2.9	1.5	.1	.0	*	5.3	
.0	.0	.4	1.8	4.1	2.2	.6	*	.0	.0	7.6	
.0	.0	.0	.4	1.4	.9	.3	.0	.1	*	4.8	
.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
.0	.0	.0	.1	.4	.0	.0	.0	.0	.0	.7	
.0	.1	14	90	231	148	63	16	3	11	476	
.0	.1	1.3	8.5	21.9	14.1	6.0	1.5	.3	1.0	45.2	
										1053	
										100.0	

TABLE 7

CUMULATIVE PCT FREQ OF SIMULTANEOUS OCCURRENCE  
OF CEILING HEIGHT (NH >4/8) AND VSBY (NM)

CEILING (FEET)	VSBY (NM)				VSBY (NM)			
	>10	>5	>2	>1	>1/2	>1/4	>50YD	>0
>A500	1.2	1.3	1.3	1.3	1.3	1.3	1.3	1.3
>A500	2.8	2.9	2.9	2.9	2.9	2.9	2.9	2.9
>A500	8.6	8.9	8.9	8.9	8.9	8.9	8.9	8.9
>A500	20.8	22.5	22.7	22.9	22.9	22.9	22.9	22.9
>A500	39.7	44.3	44.7	44.9	44.9	44.9	44.9	44.9
>A500	45.9	52.2	53.2	53.4	53.4	53.4	53.4	53.4
>A500	46.4	53.3	54.4	54.6	54.7	54.7	54.7	54.7
>A500	46.4	53.4	54.5	54.7	54.8	54.8	54.8	54.8
>A500	46.4	53.4	54.5	54.7	54.8	54.8	54.8	54.8
TOTAL	497	572	584	586	587	587	587	587

TOTAL NUMBER OF OBS: 1071

PCT FREQ NH &lt;5/8: 45.2

TABLE 7A

PERCENTAGE FREQ OF LOW CLOUDS (EIGHTHS)

0	1	2	3	4	5	6	7	8	OBSCD	TOTAL OBS
6.3	8.3	9.1	10.7	9.3	7.9	10.4	12.7	25.3	.0	1166

PERIOD: (PRIMARY) 1913-1969  
(OVER-ALL) 1859-1969

APRIL

AREA 0015 AUSTRALIAN BIGHT SW  
35.65 126.5E

TABLE 8

PERCENT FREQ OF WIND DIRECTION VS OCCURRENCE OR NON-OCCURRENCE OF  
PRECIPITATION WITH VARYING VALUES OF VISIBILITY

VSBY (NM)		N	NE	E	SE	S	SW	W	NW	VAR	CALM	PCT	TOTAL OBS
<1/2	PCP	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
	NO PCP	.0	.1	.0	.0	.0	.0	.0	.0	.0	.0	.1	
	TOT %	.0	.1	.0	.0	.0	.0	.0	.0	.0	.0	.1	
1/2<1	PCP	.0	.0	.1	.1	.0	.0	.0	.0	.0	.0	.1	
	NO PCP	.1	*	*	.0	.1	.1	.1	.1	.0	.2	.7	
	TOT %	.1	*	.1	.1	.1	.1	.1	.1	.0	.2	.8	
1<2	PCP	.0	.1	.0	.0	.0	.0	.1	.0	.0	.0	.1	
	NO PCP	.1	.1	*	.1	.0	.0	.0	.0	.0	.0	.2	
	TOT %	.1	.1	*	.1	.0	.0	.1	.0	.0	.0	.3	
2<5	PCP	.1	.1	*	.1	.1	.1	.1	*	.0	.0	.6	
	NO PCP	*	*	*	.1	.1	.0	.1	.1	.0	.0	.4	
	TOT %	.1	.2	.1	.2	.1	.1	.1	.1	.0	.0	1.0	
5<10	PCP	.5	.4	.3	.4	.7	1.2	1.2	.4	.0	.1	5.1	
	NO PCP	4.6	4.3	2.8	2.8	3.1	4.9	5.2	2.6	.0	.3	30.6	
	TOT %	5.1	4.7	3.1	3.2	3.8	6.1	6.3	3.0	.0	.3	35.7	
10+	PCP	.3	.5	.5	.2	.6	.6	.5	.2	.0	.1	3.5	
	NO PCP	7.2	9.4	5.8	3.5	8.1	9.2	10.0	4.8	.0	.7	58.6	
	TOT %	7.5	9.8	6.2	3.7	8.6	9.9	10.5	5.0	.0	.8	62.1	
TOT OBS													1737
TOT PCT													100.0

TABLE 9

PERCENT FREQ OF WIND DIRECTION VS WIND SPEED  
WITH VARYING VALUES OF VISIBILITY

VSBY (NM)	SPD KTS	N	NE	E	SE	S	SW	W	NW	VAR	CALM	PCT	TOTAL OBS
<1/2	0-3												
	4-10	.0	.1	.0	.0	.0	.0	.0	.0	.0	.0	.1	.1
	11-21	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
	22+	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
	TOT %	.0	.1	.0	.0	.0	.0	.0	.0	.0	.0	.1	.1
1/2<1	0-3	.0	.0	.1	.0	.0	.0	.0	.0	.0	.2	.2	.2
	4-10	*	*	.0	.1	.0	.1	.1	.1	.0	.0	.3	.3
	11-21	.1	*	*	.0	.0	.0	.0	.0	.0	.0	.2	.2
	22+	.0	.0	.0	.0	.1	.0	.0	.0	.0	.0	.1	.1
	TOT %	.1	*	.1	.1	.1	.1	.1	.1	.0	.2	.7	.7
1<2	0-3	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
	4-10	.0	.1	.0	.0	.0	.0	.0	.0	.0	.0	.1	.1
	11-21	*	.1	*	.1	.0	*	.1	.0	.0	.0	.3	.3
	22+	.1	.0	.0	.0	.0	.0	.0	.0	.0	.0	.1	.1
	TOT %	.1	.1	*	.1	.0	*	.1	.0	.0	.0	.4	.4
2<5	0-3	.0	.0	.0	.0	.0	.1	.0	.0	.0	.0	.1	.1
	4-10	*	*	.1	.0	.0	.0	.1	.1	.0	.0	.3	.3
	11-21	*	*	*	.1	.1	.0	.0	.1	.0	.0	.3	.3
	22+	.1	.1	.0	.1	.1	.1	.0	.0	.0	.0	.4	.4
	TOT %	.2	.2	.1	.2	.1	.2	.1	.1	.0	.0	1.1	1.1
5<10	0-3	.4	.1	.5	.3	.1	.1	.3	.1	.0	.4	2.2	2.2
	4-10	1.9	1.5	1.6	1.0	1.1	1.4	1.6	1.2	.0	.0	11.4	11.4
	11-21	1.6	1.9	.8	1.4	1.7	2.5	2.4	1.1	.0	.0	13.5	13.5
	22+	.8	.9	.0	.3	.6	1.7	1.6	.3	.0	.0	6.1	6.1
	TOT %	4.7	4.3	2.9	3.0	3.5	5.7	5.9	2.8	.0	.4	33.2	33.2
10+	0-3	.2	.2	.3	.2	.3	.2	.1	.2	.0	1.1	3.0	3.0
	4-10	3.0	4.5	2.9	2.2	3.7	3.9	3.6	1.9	.0	.0	25.6	25.6
	11-21	3.9	5.3	2.9	1.8	3.9	4.3	4.5	2.1	.0	.0	28.6	28.6
	22+	.6	.6	.4	.1	.7	2.2	2.1	.7	.0	.0	7.3	7.3
	TOT %	7.7	10.6	6.5	4.3	8.6	10.5	10.4	4.8	.0	1.1	64.5	64.5
TOT OBS													1881
TOT PCT													100.0

APRIL

PERIOD: (PRIMARY) 1913-1969  
(OVER-ALL) 1859-1969AREA 0015 AUSTRALIAN BIGHT SW  
35.6S 126.5E

TABLE 10

PERCENT FREQUENCY OF CEILING HEIGHTS (FEET, NH >4/8) AND  
OCCURRENCE OF NH <5/8 BY HOUR

HOUR (GMT)	000 149	150 299	300 599	600 999	1000 1999	2000 3499	3500 4999	5000 6499	6500 7999	8000+	TOTAL DBS	NH <4/8 ANY HGT	TOTAL DBS
0000Z	.0	.0	1.8	10.5	26.2	13.5	6.5	2.5	.0	.4	61.5	38.5	275
0600Z	.0	.3	1.0	7.0	19.8	13.4	6.4	1.3	.0	1.6	50.8	49.2	313
12015	.0	.0	1.6	6.0	17.7	13.3	6.4	.8	.4	1.2	47.4	52.6	249
18021	.0	.0	.8	9.6	22.3	14.6	3.8	1.5	.8	.8	54.2	45.8	260
TOT	0	1	14	91	236	150	64	17	3	11	587	510	1097
PCT	.0	.1	1.3	8.3	21.5	13.7	5.8	1.5	.3	1.0	53.5	46.5	100.0

TABLE 11

PERCENT FREQUENCY VSBY (NM) BY HOUR

HOUR (GMT)	<1/2	1/2<1	1<2	2<5	5<10	10+	TOTAL DBS
00003	.2	1.3	.4	.6	37.8	59.8	542
06009	.0	.7	.5	1.1	26.3	71.4	437
12015	.0	.6	.7	.9	41.0	56.7	541
18021	.0	.5	.0	2.1	28.5	68.9	425
TOT	1	15	8	22	663	1236	1945
PCT	.1	.8	.4	1.1	34.1	63.5	100.0

TABLE 12

CUMULATIVE PCT FREQ OF RANGES OF VSBY (NM) AND/OR  
CEILING HGT (FEET, NH >4/8), BY HOUR

HOUR (GMT)	<150 <50YD	<600 <1	<1000 <5	1000+ AND 5+	NH <5/8 AND 5+	TOTAL DBS
00003	.0	1.8	13.3	49.1	37.6	271
06009	.0	1.3	8.9	43.3	47.9	305
12015	.0	1.7	8.8	40.8	50.4	240
18021	.0	.8	12.2	43.5	44.3	255
TOT	0	15	115	474	482	1071
PCT	.0	1.4	10.7	44.3	45.0	100.0

TABLE 13

PERCENT FREQUENCY OF RELATIVE HUMIDITY BY TEMP

TEMP F	0-29	30-39	40-49	50-59	60-69	70-79	80-89	90-100	TOTAL DBS	PCT FREQ
70/74	.0	.0	.0	.0	.1	.4	.0	.1	8	.6
65/69	.0	.0	.0	.1	2.0	4.1	9.5	4.9	276	20.7
60/64	.0	.0	.1	2.6	9.7	16.1	16.6	8.7	718	53.7
55/59	.0	.0	.0	2.2	7.6	6.5	5.6	2.2	323	24.2
50/54	.0	.0	.0	.0	.4	.1	.2	.1	11	.8
TOTAL	0	0	1	66	265	364	427	213	1336	100.0
PCT	.0	.0	.1	4.9	19.8	27.2	32.0	15.9		

TABLE 14

PERCENT FREQUENCY OF WIND DIRECTION BY TEMP

N	NE	E	SE	S	SW	W	NW	VAR	CALM
.1	.2	.0	.0	.0	*	*	.2	.0	.0
6.4	4.5	1.6	.3	.6	1.2	2.9	2.9	.0	.2
5.9	8.8	6.1	3.5	4.9	8.6	10.1	4.7	.0	1.1
.6	1.5	2.1	2.4	8.0	5.7	3.4	.2	.0	.2
.0	.0	.0	.0	.3	.3	.2	.1	.0	.0
13.1	15.0	9.8	6.2	13.8	15.8	16.7	8.1	.0	1.6

TABLE 15

MEANS, EXTREMES AND PERCENTILES OF TEMP (DEG F) BY HOUR

HOUR (GMT)	MAX	99%	95%	50%	5%	1%	MIN	MEAN	TOTAL DBS
00003	73	71	68	63	57	54	52	62.4	769
06009	74	70	68	63	58	55	51	63.1	520
12015	72	68	66	62	56	54	50	61.4	731
18021	70	68	65	61	56	54	52	60.8	521
TOT	74	69	67	62	56	54	50	61.9	2541

TABLE 16

PERCENT FREQUENCY OF RELATIVE HUMIDITY BY HOUR

HOUR (GMT)	0-29	30-39	40-49	50-59	60-69	70-79	80-89	90-100	MEAN	TOTAL DBS
00003	.0	8.4	17.9	24.6	30.4	18.7	78	358		
06009	.0	4.6	22.8	30.2	30.8	11.7	77	325		
12015	.0	3.1	18.7	27.7	33.2	17.3	79	358		
18021	.0	4.6	19.8	26.2	32.7	16.7	79	324		
TOT	0	71	269	370	434	221	78	1365		



## APRIL

PERIOD: (PRIMARY) 1913-1969  
(OVER-ALL) 1859-1969

TABLE 17

AREA 0015 AUSTRALIAN BIGHT SW  
35.65 126.5E

PCT FREQ OF AIR TEMPERATURE (DEG F) AND THE OCCURRENCE OF FOG (WITHOUT PRECIPITATION)  
VS AIR-SEA TEMPERATURE DIFFERENCE (DEG F)

AIR-SEA TMP DIF	49 52	53 56	57 60	61 64	65 68	69 72	73 76	TOT	N FOG	NO FOG
9/10	.0	.0	.0	.0	.0	.0	.1	1	.0	.1
7/8	.0	.0	.1	.1	.0	.1	.1	5	.0	.3
6	.0	.0	.1	.1	.3	.3	.0	10	.0	.6
5	.0	.0	.0	.1	.5	.3	.0	14	.0	.9
4	.0	.0	.0	.5	1.7	.2	.0	36	.1	2.3
3	.0	.0	.1	.7	3.0	.5	.0	67	.1	4.2
2	.0	.1	.3	2.7	4.3	.3	.0	118	.1	7.5
1	.0	.0	.1	5.9	6.2	.1	.0	190	.3	12.0
0	.0	.0	1.4	9.9	3.7	.0	.0	231	.3	14.7
-1	.0	.0	2.1	9.3	.5	.0	.0	184	.2	11.7
-2	.0	.2	4.3	7.4	.5	.0	.0	191	.1	12.2
-3	.0	.1	5.9	4.0	.3	.0	.0	159	.1	10.2
-4	.0	.4	6.7	2.1	.0	.0	.0	143	.1	9.2
-5	.0	.6	4.3	.5	.0	.0	.0	83	.1	5.3
-6	.0	.6	2.8	.3	.0	.0	.0	59	.0	3.8
-7/-8	.0	1.1	1.4	.1	.0	.0	.0	40	.0	2.6
-9/-10	.1	.4	.3	.0	.0	.0	.0	11	.0	.7
-11/-13	.1	.1	.0	.0	.0	.0	.0	2	.0	.1
TOTAL	2	55	462	674	324	25	2	1544	23	1521
PCT	.1	3.6	29.9	43.7	21.0	1.6	.1	100.0	1.5	98.5

PERIOD: (OVER-ALL) 1963-1969

TABLE 18

PCT FREQ OF WIND SPEED (KTS) AND DIRECTION VERSUS SEA HEIGHTS (FT)

HGT	1-3	4-10	11-21	22-33	34-47	48+	PCT	1-3	4-10	11-21	22-33	34-47	48+	PCT
<1	.3	.0	.0	.0	.0	.0	.3	.0	.4	.0	.0	.0	.0	.4
1-2	.0	2.1	1.0	.0	.0	.0	3.1	.0	2.8	.7	.0	.0	.0	3.5
3-4	.0	.7	1.6	.0	.0	.0	2.3	.0	1.0	3.2	.0	.0	.0	4.3
5-6	.0	.5	2.3	.5	.0	.0	3.3	.0	.2	2.8	.2	.0	.0	3.1
7	.0	.2	1.0	.0	.0	.0	1.1	.0	.0	1.8	.3	.0	.0	2.2
8-9	.0	.0	.2	.5	.0	.0	.7	.0	.0	.2	.3	.0	.0	.5
10-11	.0	.0	.1	.1	.0	.0	.2	.0	.0	.0	.7	.0	.0	.7
12	.0	.0	.0	.0	.1	.0	.1	.0	.0	.2	.3	.0	.0	.5
13-16	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
17-19	.0	.0	.0	.2	.0	.0	.2	.0	.0	.0	.0	.0	.0	.0
20-22	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
23-25	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
26-32	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
33-40	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
41-48	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
49-60	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
61-70	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
71-86	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
87+	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
TOT PCT	.3	3.5	6.2	1.3	.1	.0	11.3	.0	4.4	8.8	1.8	.0	.0	15.1

HGT	1-3	4-10	11-21	22-33	34-47	48+	PCT	1-3	4-10	11-21	22-33	34-47	48+	PCT
<1	.2	.3	.0	.0	.0	.0	.5	.0	.2	.0	.0	.0	.0	.2
1-2	.0	1.6	.4	.0	.0	.0	2.0	.2	1.1	.3	.0	.0	.0	1.6
3-4	.0	1.6	1.9	.0	.0	.0	3.5	.0	.8	.9	.0	.0	.0	1.6
5-6	.0	.2	1.5	.0	.0	.0	1.7	.0	.3	.5	.2	.0	.0	1.0
7	.0	.0	1.1	.1	.0	.0	1.2	.0	.0	.2	.5	.0	.0	.7
8-9	.0	.0	.0	.5	.0	.0	.5	.0	.0	.0	.0	.0	.0	.0
10-11	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
12	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
13-16	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
17-19	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
20-22	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
23-25	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
26-32	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
33-40	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
41-48	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
49-60	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
61-70	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
71-86	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
87+	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
TOT PCT	.2	3.6	5.0	.7	.0	.0	9.5	.2	2.4	1.9	.6	.0	.0	5.1

PERIOD: (OVER-ALL) 1963-1969

APRIL

AREA 0015 AUSTRALIAN RIGHT SW  
35.65 126.5E

TABLE 18 (CONT)

PCT FREQ OF WIND SPEED (KTS) AND DIRECTION VERSUS SEA HEIGHTS (FT)

HGT	S							SW							PCT	TOTAL PCT
	1-3	4-10	11-21	22-33	34-47	48+	PCT	1-3	4-10	11-21	22-33	34-47	48+	PCT		
<1	.0	.2	.0	.0	.0	.0	.2	.0	.7	.0	.0	.0	.0	.7		
1-2	.0	2.5	.3	.0	.0	.0	2.8	.0	2.9	.2	.0	.0	.0	.3		
3-4	.0	1.6	2.4	.1	.0	.0	4.2	.2	1.7	3.0	.*	.0	.0	4.9		
5-6	.0	.6	1.7	.1	.1	.0	2.6	.0	.2	1.8	1.4	.*	.0	3.5		
7	.0	.0	1.0	.5	.0	.0	1.4	.0	.0	1.1	.5	.0	.0	1.6		
8-9	.0	.3	.0	.2	.0	.0	.5	.0	.0	.2	1.3	.0	.0	1.4		
10-11	.0	.0	.0	.0	.2	.0	.2	.0	.0	.2	.6	.1	.0	.9		
12	.0	.0	.0	.0	.0	.0	.0	.0	.0	.2	.3	.0	.0	.5		
13-16	.0	.0	.0	.2	.0	.0	.2	.0	.0	.2	.2	.3	.0	.6		
17-19	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0		
20-22	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0		
23-25	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0		
26-32	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.2	.0	.2		
33-40	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0		
41-48	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0		
49-60	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0		
61-70	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0		
71-86	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0		
87+	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0		
TOT PCT	.0	5.2	5.5	1.0	.3	.0	12.1	.2	5.6	6.6	4.3	.6	.0	17.2		

HGT	W							NW							PCT	TOTAL PCT
	1-3	4-10	11-21	22-33	34-47	48+	PCT	1-3	4-10	11-21	22-33	34-47	48+	PCT		
<1	.0	.3	.0	.0	.0	.0	.3	.2	.8	.0	.0	.0	.0	1.0		
1-2	.1	2.7	.9	.0	.0	.0	3.8	.*	1.0	.7	.0	.0	.0	1.7		
3-4	.0	2.8	3.2	.2	.0	.0	6.2	.0	.7	1.4	.2	.0	.0	2.2		
5-6	.0	.3	2.5	1.0	.0	.0	3.8	.0	.*	.9	.4	.0	.0	1.3		
7	.0	.2	1.9	.7	.5	.0	3.3	.0	.0	.6	.2	.0	.0	.7		
8-9	.0	.0	.5	.4	.3	.0	1.2	.0	.0	.0	.2	.0	.0	.2		
10-11	.1	.0	.0	.0	.2	.0	.3	.*	.0	.*	.0	.0	.0	.1		
12	.0	.0	.1	.1	.2	.0	.4	.0	.0	.*	.2	.0	.0	.2		
13-16	.0	.0	.2	.9	.0	.0	1.0	.0	.0	.0	.*	.0	.0	.*		
17-19	.0	.1	.0	.0	.2	.0	.3	.0	.*	.0	.0	.2	.0	.2		
20-22	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0		
23-25	.0	.0	.0	.0	.2	.0	.2	.0	.0	.0	.0	.0	.0	.0		
26-32	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0		
33-40	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0		
41-48	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0		
49-60	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0		
61-70	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0		
71-86	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0		
87+	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0		
TOT PCT	.2	6.4	9.3	3.3	1.4	.0	20.7	.3	2.6	3.6	1.1	.2	.0	7.7	98.6	

WIND SPEED (KTS) VS SEA HEIGHT (FT)

HGT	0-3	4-10	11-21	22-33	34-47	48+	PCT	TOT DBS
<1	2.5	2.9	.0	.0	.0	.0	5.4	
1-2	.3	15.5	4.5	.0	.0	.0	21.3	
3-4	.3	10.9	17.4	.5	.0	.0	29.1	
5-6	.0	2.3	14.0	3.7	.2	.0	20.2	
7	.0	.3	8.6	2.8	.5	.0	12.2	
8-9	.0	.3	.9	3.4	.3	.0	4.9	
10-11	.3	.0	.3	1.4	.5	.0	2.5	
12	.0	.0	.5	.9	.3	.0	1.7	
13-16	.0	.0	.3	1.2	.3	.0	1.8	
17-19	.0	.2	.0	.2	.3	.0	.6	
20-22	.0	.0	.0	.0	.0	.0	.0	
23-25	.0	.0	.0	.0	.2	.0	.2	
26-32	.0	.0	.0	.0	.2	.0	.2	
33-40	.0	.0	.0	.0	.0	.0	.0	
41-48	.0	.0	.0	.0	.0	.0	.0	
49-60	.0	.0	.0	.0	.0	.0	.0	
61-70	.0	.0	.0	.0	.0	.0	.0	
71-86	.0	.0	.0	.0	.0	.0	.0	
87+	.0	.0	.0	.0	.0	.0	.0	
TOT PCT	3.4	33.4	46.5	14.0	2.6	.0	100.0	649

PERIOD: (OVER-ALL) 1949-1969

TABLE 19

PERCENT FREQUENCY OF WAVE HEIGHT (FT) VS WAVE PERIOD (SECONDS)

PERIOD (SEC)	<1	1-2	3-4	5-6	7	8-9	10-11	12	13-16	17-19	20-22	23-25	26-32	33-40	41-48	49-60	61-70	71-86	87+	TOTAL	MEAN HGT
<6	.4	3.5	5.7	2.5	1.3	1.2	.6	.6	.4	.1	.0	.0	.0	.0	.0	.0	.0	.0	.0	146	5
6-7	.0	.1	3.4	7.3	5.4	3.5	2.2	.9	1.6	.6	.3	.1	.2	.0	.0	.0	.0	.0	.0	228	7
8-9	.0	.0	1.1	4.0	4.2	3.8	3.4	2.1	1.9	.6	.2	.2	.0	.0	.0	.0	.0	.0	.0	192	9
10-11	.0	.0	.1	1.6	3.0	4.2	3.3	1.2	1.9	.6	.2	.0	.2	.0	.0	.0	.0	.0	.0	145	10
12-13	.0	.0	.1	.1	.3	2.5	1.8	.4	1.2	.1	.7	.1	.1	.0	.0	.0	.0	.0	.0	67	11
>13	.0	.0	.0	.3	.6	.4	.6	.8	.8	.2	.0	.2	.2	.0	.0	.0	.0	.0	.0	37	12
INDET	.6	.8	1.2	1.5	1.6	.8	.7	.7	.4	.0	.0	.0	.0	.1	.0	.0	.0	.0	.0	74	6
TOTAL	9	39	104	154	146	146	111	60	74	19	13	6	7	1	0	0	0	0	0	889	8
PCT	1.0	4.4	11.7	17.3	16.4	16.4	12.5	6.7	8.3	2.1	1.5	.7	.8	.1	.0	.0	.0	.0	.0	100.0	

PERIOD: (PRIMARY) 1913-1969  
(OVER-ALL) 1864-1969

MAY

AREA 0015 AUSTRALIAN BIGHT S4  
35.05 126.5E

TABLE 1

PERCENT FREQUENCY OF WEATHER OCCURRENCE BY WIND DIRECTION

PRECIPITATION TYPE										OTHER WEATHER PHENOMENA					
WIND DIR	RAIN	RAIN SHWR	DRZL	FRZG PCPN	SNOW	OTHER FRZN PCPN	HAIL	PCPN AT DB TIME	PCPN PAST HOUR	THDR LTNG	FGG WD PCPN	FGG WD PCPN PAST HR	SMOKE HAZE	SPRAY BLWG SNOW	NO SIG WEA
N	.6	1.4	1.0	.0	.0	.0	.0	3.0	2.2	3.6	1.5	.0	1.7	.0	88.2
NE	2.9	4.9	1.5	.0	.0	.0	.0	9.3	2.1	2.9	.5	.0	.0	.0	85.2
E	7.7	4.1	3.1	.0	.0	.0	.0	14.9	3.1	2.3	.0	.0	1.0	.0	78.7
SE	8.3	8.7	1.6	.0	.0	.0	.0	18.5	4.7	.8	.0	.0	.0	.0	76.0
S	3.3	6.1	1.0	.0	.0	.0	.2	10.6	3.4	1.3	.0	.0	.0	.0	85.2
SW	3.2	9.7	3.3	.0	.0	.0	.4	16.6	4.2	.5	.0	.0	.0	.0	79.1
W	4.9	12.9	1.8	.0	.0	.0	.0	19.6	3.1	2.8	.0	.0	.0	.0	75.6
NW	2.0	7.1	1.2	.0	.0	.0	.0	10.3	3.0	3.1	.0	.0	.9	.0	82.8
VAR	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
CALM	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	100.0
TOT PCT	3.3	7.3	1.8	.0	.0	.0	.1	12.5	3.1	2.3	.3	.0	.5	.0	81.8
TOT OBS:	1896														

TABLE 2

PERCENT FREQUENCY OF WEATHER OCCURRENCE BY HOUR

HOUR (GMT)	PRECIPITATION TYPE							OTHER WEATHER PHENOMENA							
	RAIN	RAIN SHWR	DRZL	FRZG PCPN	SNOW	OTHER FRZN PCPN	HAIL	PCPN AT 08 TIME	PCPN PAST HOUR	THDR LTNG	FGG WD PCPN	FGG WD PCPN PAST HR	SMOKE HAZE	SPRAY BLWG DUST BLWG SNOW	SIG NIG WEA
06003	2.4	7.9	1.3	.0	.0	.0	.2	11.7	2.6	1.3	.2	.0	.7	.0	83.9
06009	4.0	6.8	1.6	.0	.0	.0	.0	12.4	4.0	.5	.2	.0	.5	.0	82.5
12015	3.5	7.5	1.8	.0	.0	.0	.0	12.8	2.0	3.9	.6	.0	.6	.0	81.1
18021	4.4	6.5	2.4	.0	.0	.0	.2	13.2	4.3	3.4	.2	.0	.2	.0	79.1
TOT PCT	3.4	7.2	1.8	.0	.0	.0	.1	12.5	3.1	2.3	.3	.0	.5	.0	81.8
TOT OBS:	1936														

TABLE 3

PERCENTAGE FREQUENCY OF WIND DIRECTION BY SPEED AND BY HOUR

WIND DIR	WIND SPEED (KNOTS)							48+	TOTAL OBS	PCT FREQ	MEAN SPD	HOUR (GMT)							
	0-3	4-10	11-21	22-33	34-47	00	03					06	09	12	15	18	21		
N	.3	5.7	7.7	2.9	.2	*		16.8	14.6	17.2	17.7	15.4	17.3	15.9	16.2	18.6	15.6		
NE	.5	3.9	3.9	1.8	.2	.0		10.3	13.9	9.6	10.8	7.5	12.7	9.2	16.8	7.8	18.6		
E	.4	2.5	2.3	.8	.1	.0		6.1	12.5	4.6	7.0	8.6	8.5	7.0	6.5	4.9	6.4		
SE	.3	1.6	1.7	.5	.0	.0		4.2	12.2	3.3	6.5	3.9	3.5	4.9	5.3	2.7	3.8		
S	.4	4.3	4.6	1.7	.2	.0		11.1	13.8	12.9	11.5	11.2	8.1	9.5	9.8	13.6	7.7		
SW	.5	4.2	8.4	4.6	.9	*		18.6	17.5	19.3	15.1	21.2	20.0	17.9	15.8	20.9	14.5		
W	.3	5.6	7.7	4.7	1.1	.0		19.3	16.8	18.9	19.3	19.2	18.5	20.6	15.1	20.4	19.4		
NW	.2	4.2	6.1	2.0	.3	.0		12.7	14.9	13.6	11.1	14.8	9.2	13.6	12.4	10.8	12.5		
VAR	.0	.0	.0	.0	.0	.0		.0	.0	.0	.0	.0	.0	.0	.0	.0	.0		
CALM	1.0							1.0	.0	.8	1.0	.3	2.3	1.4	2.0	.3	1.5		
TOT OBS	96	808	1071	478	72	2	2527		15.1	520	286	374	130	516	199	369	123		
TOT PCT	3.8	32.0	42.4	18.9	2.8	.1		100.0		100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0		

TABLE 3A

WIND DIR	WIND SPEED (KNOTS)					41+	TOTAL OBS	PCT FREQ	MEAN SPD	HOUR (GMT)			
	0-6	7-16	17-27	28-40						00	03	09	18
N	1.8	8.7	5.3	.9	.1		16.8	14.6	17.4	15.9	16.0	17.8	
NE	1.7	5.1	2.7	.7	.0		10.3	13.9	10.0	8.8	11.3	10.7	
E	1.3	3.2	1.4	.2	.0		6.1	12.5	5.4	7.1	6.9	5.3	
SE	1.0	2.0	1.1	.1	.0		4.2	12.2	4.4	3.8	5.0	3.0	
S	1.6	5.9	2.9	.7	*		11.1	13.8	12.4	10.4	9.6	12.0	
SW	1.4	7.5	6.8	2.6	.2		18.6	17.5	17.8	20.9	17.3	19.2	
W	2.5	7.4	6.4	2.8	.1		19.3	16.8	19.0	19.0	19.1	20.1	
NW	1.7	5.8	4.2	.9	.1		12.7	14.9	12.7	13.3	13.3	11.3	
VAR	.0	.0	.0	.0	.0		.0	.0	.0	.0	.0	.0	
CALM	1.0						1.0	.0	.9	.8	1.5	.6	
TOT OBS	354	1154	781	224	14	2527		15.1	806	504	715	502	
TOT PCT	14.0	45.7	30.9	8.9	.6		100.0		100.0	100.0	100.0	100.0	

PERIOD: (PRIMARY) 1913-1969  
(OVER-ALL) 1864-1969

MAY

AREA 0015 AUSTRALIAN BIGHT SW  
35.65 126.5E

TABLE 4

PERCENTAGE FREQUENCY OF WIND SPEED BY HOUR (GMT)

HR	CALM	1-3	4-10	11-21	22-33	34-47	48+	MEAN	PCT FREQ	TOTAL OBS
00003	.9	3.6	31.8	41.1	20.2	2.5	.0	15.1	100.0	806
06009	.8	1.4	29.8	46.8	17.1	4.2	.0	15.6	100.0	504
12015	1.5	2.9	32.6	42.4	17.5	2.8	.3	14.7	100.0	715
18021	.6	2.8	33.7	40.0	20.7	2.2	.0	15.0	100.0	502
TOT	25	71	108	1071	478	72	2	15.1		2527
PCT	1.0	2.8	32.0	42.4	18.9	2.8	.1		100.0	

TABLE 5

PCT FREQ OF TOTAL CLOUD AMOUNT (EIGHTHS)  
BY WIND DIRECTION

WIND DIR	0-2	3-4	5-7	8-6	TOTAL CLOUD OBS	MEAN CLOUD COVER
N	5.0	2.6	5.9	3.8		4.6
NE	1.9	1.3	2.1	2.3		5.0
E	.4	.4	2.3	1.8		6.2
SE	.8	.6	1.6	.7		6.1
S	.8	2.8	5.6	2.4		5.6
SW	2.3	6.0	9.2	3.5		5.2
W	6.0	4.5	5.8	3.5		4.3
NW	4.1	2.7	5.4	2.2		4.5
VAR	.0	.0	.0	.0		.0
CALM	.4	.0	.2	.1		3.7
TOT OBS	236	235	435	230	1136	4.9
TOT PCT	20.8	20.7	38.3	20.2	100.0	

TABLE 6

PERCENTAGE FREQUENCY OF CEILING HEIGHTS (FT, NH >4/8)  
AND OCCURRENCE OF NH <5/8 BY WIND DIRECTION

	000 149	150 299	300 599	600 999	1000 1999	2000 3499	3500 4999	5000 6499	6500 7999	8000+	NH <5/8 ANY HGT	TOTAL OBS
N	.0	.0	.2	1.1	2.8	1.4	1.2	.0	.0	.3	10.3	
NE	.0	.0	.6	1.4	.5	.5	.0	.0	.0	.0	4.5	
E	.0	.0	.1	.7	1.5	.6	.2	.1	.1	.0	1.6	
SE	.0	.0	.0	.1	1.1	.6	.1	.1	.0	.1	.7	
S	.0	.0	.1	1.0	2.8	1.7	1.3	.2	.1	.0	4.5	
SW	.0	.0	.1	1.8	4.5	1.9	1.4	.2	.0	.1	11.1	
W	.0	.0	.2	1.9	1.8	1.7	.9	.1	.0	.2	13.1	
NW	.0	.0	.0	.8	2.1	1.2	.6	.1	.1	.5	9.0	
VAR	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
CALM	.0	.0	.0	.0	.2	.0	.0	.0	.0	.1	.4	
TOT OBS	0	0	9	90	206	108	70	9	3	14	627	1136
TOT PCT	.0	.0	.8	7.9	18.1	9.5	6.2	.8	.3	1.2	55.2	100.0

TABLE 7

CUMULATIVE PCT FREQ OF SIMULTANEOUS OCCURRENCE  
OF CEILING HEIGHT (NH >4/8) AND VSBY (NM)

CEILING (FEET)	OR >10	OR >5	OR >2	OR >1	OR >1/2	OR >1/4	OR >50YD	OR >0
OR >6500	1.4	1.5	1.5	1.5	1.5	1.5	1.5	1.5
OR >5000	2.0	2.3	2.3	2.3	2.3	2.3	2.3	2.3
OR >3500	7.1	8.5	8.6	8.7	8.7	8.7	8.7	8.7
OR >2000	15.1	17.5	17.9	18.0	18.0	18.0	18.0	18.0
OR >1000	29.8	35.1	35.9	36.0	36.0	36.0	36.1	36.1
OR >600	35.6	42.6	43.8	43.9	43.9	43.9	44.0	44.0
OR >300	35.9	43.1	44.6	44.6	44.6	44.6	44.7	44.7
OR >150	35.9	43.1	44.6	44.6	44.6	44.6	44.7	44.7
OR >0	35.9	43.1	44.6	44.6	44.6	44.6	44.7	44.7
TOTAL	413	495	512	513	513	513	514	514

TOTAL NUMBER OF OBS: 1149

PCT FREQ NH <5/8: 55.3

TABLE 7A

PERCENTAGE FREQ OF LOW CLOUDS (EIGHTHS)

0	1	2	3	4	5	6	7	8	OBS	TOTAL OBS
9.3	10.6	10.9	12.2	10.7	8.1	11.5	10.6	16.1	.0	1292

PERIOD: (PRIMARY) 1913-1969  
(OVER-ALL) 1864-1969

MAY

AREA 0015 AUSTRALIAN BIGHT SW  
35.05 126.5E

TABLE 8

PERCENT FREQ OF WIND DIRECTION VS OCCURRENCE OR NON-OCCURRENCE OF  
PRECIPITATION WITH VARYING VALUES OF VISIBILITY

VSBY (NM)		N	NE	E	SE	S	SW	W	NW	VAR	CALM	PCT	TOTAL OBS
<1/2	PCP	.0	.0	.1	.0	.0	.0	.0	.0	.0	.0	.1	
	NO PCP	.0	.0	.0	.0	.1	.0	.0	.0	.0	.0	.1	
	TOT %	.0	.0	.1	.0	.1	.0	.0	.0	.0	.0	.1	
1/2<1	PCP	.0	.0	.0	.0	.0	.0	.1	*	.0	.0	.1	
	NO PCP	.3	.1	.0	.0	.0	.0	.0	.0	.0	.0	.3	
	TOT %	.3	.1	.0	.0	.0	.0	.1	*	.0	.0	.4	
1<2	PCP	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
	NO PCP	.1	.0	.0	*	*	.1	.0	.1	.0	.0	.2	
	TOT %	.1	.0	.0	*	*	.1	.0	.1	.0	.0	.2	
2<5	PCP	.0	.0	.1	.0	.1	.1	.4	.1	.0	.0	.7	
	NO PCP	.1	.1	.1	.1	.0	.1	.1	*	.0	.0	.5	
	TOT %	.1	.1	.2	.1	.1	.2	.5	.1	.0	.0	1.2	
5<10	PCP	.2	.8	.4	.5	.8	1.8	2.5	.8	.0	.0	7.9	
	NO PCP	5.4	3.4	1.7	1.0	2.2	4.3	3.8	3.7	.0	.2	25.7	
	TOT %	5.6	4.2	2.1	1.5	3.0	6.2	6.3	4.5	.0	.2	33.6	
10+	PCP	.3	.1	.2	.1	.3	1.3	1.0	.5	.0	.0	3.7	
	NO PCP	11.0	5.2	2.6	1.7	7.5	11.9	12.1	8.2	.0	.5	60.8	
	TOT %	11.3	5.4	2.8	1.8	7.8	13.2	13.1	8.7	.0	.5	64.5	
TOT OBS													
TOT PCT													
		17.4	9.6	5.1	3.3	10.9	19.6	19.9	13.3	.0	.7	100.0	1896

TABLE 9

PERCENT FREQ OF WIND DIRECTION VS WIND SPEED  
WITH VARYING VALUES OF VISIBILITY

VSBY (NM)	SPD KTS	N	NE	E	SE	S	SW	W	NW	VAR	CALM	PCT	TOTAL OBS
<1/2	0-3	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
	4-10	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
	11-21	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
	22+	.0	.0	*	.0	*	.0	.0	.0	.0	.0	.1	
	TOT %	.0	.0	*	.0	*	.0	.0	.0	.0	.0	.1	
1/2<1	0-3	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
	4-10	.0	*	.0	.0	.0	.0	*	.0	.0	.0	.1	
	11-21	.1	.0	.0	.0	.0	.0	.0	.0	.0	.0	.1	
	22+	.1	.0	.0	.0	.0	.0	*	*	.0	.0	.2	
	TOT %	.2	*	.0	.0	.0	.0	.1	*	.0	.0	.4	
1<2	0-3	.0	.0	.0	*	*	.0	.0	.0	.0	.0	*	
	4-10	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
	11-21	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
	22+	*	.0	.0	.0	.0	*	*	*	.0	.0	.1	
	TOT %	*	.0	.0	*	*	*	.0	*	.0	.0	.2	
2<5	0-3	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
	4-10	*	.0	*	.0	.0	.1	.1	.0	.0	.0	.3	
	11-21	.0	*	*	.0	*	.1	.1	*	.0	.0	.4	
	22+	*	.0	*	*	.0	.0	.3	*	.0	.0	.4	
	TOT %	.1	*	.1	*	*	.2	.4	.1	.0	.0	1.1	
5<10	0-3	.1	.1	*	.1	.1	.1	.1	*	.0	.2	.9	
	4-10	2.0	1.1	.7	.4	1.0	.7	1.0	1.2	.0	.0	8.1	
	11-21	2.5	1.9	.8	.5	1.3	2.9	2.5	2.3	.0	.0	14.6	
	22+	.7	.8	.5	.3	.6	2.3	2.4	.7	.0	.0	8.3	
	TOT %	5.3	3.9	2.0	1.4	2.9	6.0	5.9	4.2	.0	.2	31.8	
10+	0-3	.1	.2	.2	*	.3	.4	.2	.1	.0	.8	2.4	
	4-10	3.7	2.5	1.7	1.1	3.5	3.2	4.3	3.0	.0	.0	23.0	
	11-21	5.9	2.2	1.0	.6	3.0	6.1	5.4	4.4	.0	.0	28.5	
	22+	2.1	1.1	.1	*	1.1	3.6	3.3	1.1	.0	.0	12.4	
	TOT %	11.8	6.1	2.9	1.7	7.9	13.2	13.3	8.5	.0	.8	66.4	
TOT OBS													
TOT PCT													
		17.5	10.1	5.1	3.2	10.9	19.5	19.7	12.9	.0	1.0	100.0	2033



MAY

AREA 0015 AUSTRALIAN BIGHT SW  
35.65 126.5EPERIOD: (PRIMARY) 1913-1969  
(OVER-ALL) 1864-1969

TABLE 10

PERCENT FREQUENCY OF CEILING HEIGHTS (FEET, NH >4/8) AND  
OCCURRENCE OF NH <5/8 BY HOUR

HOURL (GMT)	000 149	150 299	300 599	600 999	1000 1999	2000 3499	3500 4999	5000 6499	6500 7999	8000+	TOTAL	NH <5/8 ANY HGT	TOTAL OBS
00003	.0	.0	1.3	7.4	18.4	9.0	7.1	1.3	.3	1.3	66.1	53.9	310
06009	.0	.0	1.2	7.4	16.7	8.6	8.0	.6	.6	1.9	45.1	54.9	324
12015	.0	.0	.0	7.3	14.9	8.3	4.6	1.0	.0	.7	36.8	63.2	302
18021	.0	.0	.4	8.1	19.0	9.9	4.0	.4	.0	.7	42.5	57.5	273
TOT	0	0	9	91	208	108	73	10	3	14	516	693	1209
PCT	.0	.0	.7	7.5	17.2	8.9	6.0	.8	.2	1.2	42.7	57.3	100.0

TABLE 11

PERCENT FREQUENCY VSBY (NM) BY HOUR

HOURL (GMT)	<1/2	1/2<1	1<2	2<5	5<10	10+	TOTAL OBS
00003	.2	.3	.5	.8	34.5	63.7	592
06009	.0	.2	.2	1.6	24.8	73.2	448
12015	.2	.5	.0	.8	38.1	60.4	593
18021	.0	.5	.2	1.4	28.4	69.5	440
TOT	2	8	5	23	666	1369	2073
PCT	.1	.4	.2	1.1	32.1	66.0	100.0

TABLE 12

CUMULATIVE PCT FREQ OF RANGES OF VSBY (NM) AND/OR  
CEILING HGT (FEET, NH >4/8) BY HOUR

HOURL (GMT)	<150 <500	<600 <1	<1000 <5	1000+ AND 5+	NH <5/8 AND 5+	TOTAL OBS
00003	.3	1.7	10.0	38.0	52.0	300
06009	.0	1.3	10.3	37.1	52.6	310
12015	.0	.4	8.5	30.4	61.1	283
18021	.0	.4	10.5	34.4	55.1	256
TOT	1	11	113	403	633	1149
PCT	.1	1.0	9.8	35.1	55.1	100.0

TABLE 13

PERCENT FREQUENCY OF RELATIVE HUMIDITY BY TEMP

TEMP F	0-29	30-39	40-49	50-59	60-69	70-79	80-89	90-100	TOTAL OBS	PCT FREQ
70/74	.0	.0	.0	.0	.0	.0	.1	.0	1	.1
65/69	.0	.0	.0	.1	.2	2.4	3.4	1.4	108	7.5
60/64	.0	.0	.0	.9	3.9	12.8	20.1	8.7	669	46.4
55/59	.0	.0	.0	2.2	7.3	12.5	13.7	4.4	577	40.0
50/54	.0	.0	.0	.4	1.9	1.3	1.4	.8	85	5.9
45/49	.0	.0	.0	.0	.0	.0	.1	.0	1	.1
TOTAL	0	0	0	53	191	418	558	221	1441	100.0
PCT	.0	.0	.0	3.7	13.3	29.0	38.7	15.3		

TABLE 14

PERCENT FREQUENCY OF WIND DIRECTION BY TEMP

N	NE	E	SE	S	SW	W	NW	VAR	CALM
.0	.0	.0	.0	.0	.0	.1	.0	.0	.0
3.0	1.0	*	.0	.0	.3	1.1	2.1	.0	.1
12.4	6.3	2.6	.8	1.5	5.0	9.9	7.8	.0	.1
1.9	2.6	2.6	1.9	7.8	13.1	8.0	1.8	.0	.5
.0	.0	.0	.4	2.8	2.2	.4	.1	.0	.0
.0	.0	.0	.0	*	*	.0	.0	.0	.0
17.3	9.9	5.2	3.0	12.2	20.5	19.4	11.8	.0	.7

TABLE 15

MEANS, EXTREMES AND PERCENTILES OF TEMP (DEG F) BY HOUR

HOURL (GMT)	MAX	99%	95%	50%	5%	1%	MIN	MEAN	TOTAL OBS
00003	70	67	65	60	54	52	51	60.1	795
06009	70	68	66	61	55	52	48	60.7	503
12015	68	65	64	60	54	52	50	59.6	723
18021	68	66	64	59	54	52	50	59.1	509
TOT	70	67	65	60	54	52	48	59.9	2530

TABLE 16

PERCENT FREQUENCY OF RELATIVE HUMIDITY BY HOUR

HOURL (GMT)	0-29	30-39	40-49	50-59	60-69	70-79	80-89	90-100	MEAN	TOTAL OBS
00003	.0	4.5	13.5	29.8	39.0	13.3	79	400		
06009	.0	3.6	16.0	33.4	35.8	11.2	78	338		
12015	.0	2.3	11.3	25.1	40.9	20.6	82	399		
18021	.0	4.6	13.4	27.7	38.4	15.9	79	328		
TOT	0	54	197	423	566	225	80	1465		

MAY

PERIOD: (PRIMARY) 1913-1969  
(OVER-ALL) 1864-1969

TABLE 17

AREA 0015 AUSTRALIAN BIGHT SW  
35.65 126.5EPCT FREQ OF AIR TEMPERATURE (DEG F) AND THE OCCURRENCE OF FOG (WITHOUT PRECIPITATION)  
VS AIR-SEA TEMPERATURE DIFFERENCE (DEG F)

AIR-SEA TMP DIF	45 48	49 52	53 56	57 60	61 64	65 68	69 72	TOT	W FOG	WD FOG
7/8	.0	.0	.0	.0	.0	.1	.1	3	.0	.2
6	.0	.0	.0	.0	.1	.2	.0	4	.0	.2
5	.0	.0	.0	.0	.2	.5	.1	13	.0	.8
4	.0	.0	.0	.0	.9	1.2	.1	35	.0	2.2
3	.0	.0	.1	.2	1.3	1.2	.0	46	.1	2.8
2	.0	.0	.0	.8	4.1	1.5	.0	105	.1	6.3
1	.0	.0	.1	2.6	8.3	1.0	.0	195	.2	11.8
0	.0	.0	.1	4.6	8.4	.7	.0	225	.0	13.8
-1	.0	.0	.4	6.9	5.7	.1	.0	212	.0	13.0
-2	.0	.0	.8	8.1	3.5	.2	.0	205	.0	12.6
-3	.0	.0	1.9	7.0	1.7	.0	.0	172	.0	10.6
-4	.0	.0	2.5	5.0	.9	.1	.0	138	.0	8.5
-5	.0	.1	3.9	2.6	.4	.0	.0	115	.0	7.1
-6	.0	.1	2.6	1.5	.1	.0	.0	70	.0	4.3
-7/-8	.0	.3	2.3	1.2	.1	.0	.0	64	.0	3.9
-9/-10	.1	.4	.6	.1	.0	.0	.0	17	.0	1.0
-11/-13	.0	.1	.2	.0	.0	.0	.0	6	.0	.4
TOTAL	1	17	253	660	579	111	4	1625	6	1619
PCT	.1	1.0	15.6	40.6	35.6	6.8	.2	100.0	.4	99.6

PERIOD: (OVER-ALL) 1963-1969

TABLE 18

PCT FREQ OF WIND SPEED (KTS) AND DIRECTION VERSUS SEA HEIGHTS (FT)

HGT	N							PCT	NE							PCT
	1-3	4-10	11-21	22-33	34-47	48+			1-3	4-10	11-21	22-33	34-47	48+		
<1	.1	.5	.0	.0	.0	.0	.0	.6	.0	.2	.0	.0	.0	.0	.0	.2
1-2	.0	1.8	1.0	.0	.0	.0	2.8	.0	.0	1.6	.0	.0	.0	.0	.0	1.6
3-4	.0	1.1	4.0	.5	.0	.0	5.6	.0	.0	.3	1.5	.0	.0	.0	.0	1.8
5-6	.0	.5	4.0	.5	.0	.0	5.0	.0	.0	.2	.9	1.1	.2	.0	.0	2.3
7	.0	.0	1.6	.9	.0	.0	2.4	.0	.0	.0	.2	.3	.0	.0	.0	.6
8-9	.0	.0	.5	.8	.0	.0	1.2	.0	.0	.0	.0	.1	.0	.0	.0	.1
10-11	.0	.0	.0	1.0	.0	.0	1.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
12	.0	.0	.1	.1	.0	.0	.2	.0	.0	.0	.0	.0	.0	.0	.0	.0
13-16	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
17-19	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
20-22	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
23-25	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
26-32	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
33-40	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
41-48	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
49-60	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
61-70	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
71-86	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
87+	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
TOT PCT	.1	3.8	11.2	3.8	.0	.0	18.9	.0	.0	2.3	2.6	1.5	.2	.0	.0	6.6

HGT	E							PCT	SE							PCT
	1-3	4-10	11-21	22-33	34-47	48+			1-3	4-10	11-21	22-33	34-47	48+		
<1	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
1-2	.0	.9	.0	.0	.0	.0	.9	.0	.0	1.3	.0	.0	.0	.0	.0	1.3
3-4	.0	.3	.6	.0	.0	.0	.9	.0	.0	.3	.3	.0	.0	.0	.0	.7
5-6	.0	.2	.7	.3	.2	.0	1.3	.0	.0	.0	.1	.2	.0	.0	.0	.2
7	.0	.0	.1	.0	.0	.0	.1	.0	.0	.0	.0	.2	.0	.0	.0	.2
8-9	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
10-11	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
12	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
13-16	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
17-19	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
20-22	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
23-25	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
26-32	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
33-40	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
41-48	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
49-60	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
61-70	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
71-86	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
87+	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
TOT PCT	.0	1.4	1.4	.3	.2	.0	3.2	.0	.0	1.6	.4	.3	.0	.0	.0	2.4

PERIOD: (OVER-ALL) 1963-1969

MAY

AREA 0015 AUSTRALIAN BIGHT SW  
35.65 126.5E

TABLE 18 (CONT)

PCT FREQ OF WIND SPEED (KTS) AND DIRECTION VERSUS SEA HEIGHTS (FT)

HGT	S							SW							PCT
	1-3	4-10	11-21	22-33	34-47	48+	PCT	1-3	4-10	11-21	22-33	34-47	48+	PCT	
<1	.3	.2	.0	.0	.0	.0	.5	.0	.0	.0	.0	.0	.0	.0	.0
1-2	.2	2.5	1.0	.0	.0	.0	3.7	.2	1.9	.9	.0	.0	.0	.0	3.0
3-4	.0	1.8	1.9	.0	.0	.0	2.7	.0	2.6	2.7	.0	.0	.0	.0	5.3
5-6	.0	.2	1.1	.3	.0	.0	1.6	.0	.3	2.6	.3	.0	.0	.0	3.2
7	.0	.0	.8	.5	.0	.0	1.3	.0	.0	2.0	1.3	.3	.0	.0	3.6
8-9	.0	.0	.5	.3	.0	.0	.8	.0	.0	.9	1.1	.0	.0	.0	2.1
10-11	.0	.0	.0	.2	.0	.0	.2	.0	.0	.0	1.1	.2	.0	.0	1.3
12	.0	.0	.0	.4	.0	.0	.4	.0	.0	.0	.7	.2	.0	.0	.8
13-16	.0	.0	.0	.0	.2	.0	.2	.0	.0	.0	.2	.2	.0	.0	.3
17-19	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
20-22	.0	.0	.0	.0	.0	.0	.0	.0	.0	.2	.0	.0	.0	.0	.2
23-25	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
26-32	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
33-40	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
41-48	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
49-60	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
61-70	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
71-86	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
87+	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
TOT PCT	.5	4.6	4.3	1.7	.2	.0	11.1	.2	4.8	9.3	4.7	.8	.0	.0	19.7

HGT	W							NW							PCT	TOTAL PCT
	1-3	4-10	11-21	22-33	34-47	48+	PCT	1-3	4-10	11-21	22-33	34-47	48+	PCT		
<1	.2	.8	.0	.0	.0	.0	1.0	.0	.2	.0	.0	.0	.0	.0	.2	
1-2	.3	3.4	.3	.0	.0	.0	4.0	.2	2.5	.4	.0	.0	.0	.0	3.1	
3-4	.0	2.0	2.8	.2	.0	.0	5.0	.0	1.4	2.4	.2	.0	.0	.0	4.0	
5-6	.1	1.0	3.6	2.2	.0	.0	6.9	.0	.3	2.9	.8	.0	.0	.0	4.1	
7	.0	.0	2.0	.5	.3	.0	2.8	.0	.0	1.6	.5	.0	.0	.0	2.1	
8-9	.0	.0	.3	1.2	.2	.0	1.7	.0	.0	.6	.4	.2	.0	.0	1.1	
10-11	.0	.0	.0	.4	.0	.0	.4	.0	.0	.0	.0	.0	.0	.0	.0	
12	.0	.0	.0	.4	.0	.0	.4	.0	.0	.0	.0	.0	.0	.0	.0	
13-16	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
17-19	.0	.0	.2	.0	.0	.0	.2	.0	.0	.0	.0	.0	.0	.0	.0	
20-22	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
23-25	.0	.0	.0	.1	.0	.0	.1	.0	.0	.0	.0	.0	.0	.0	.0	
26-32	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
33-40	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
41-48	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
49-60	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
61-70	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
71-86	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
87+	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
TOT PCT	.5	7.3	9.1	5.1	.4	.0	22.4	.3	4.3	7.9	2.0	.2	.0	.0	14.9	99.2

WIND SPEED (KTS) VS SEA HEIGHT (FT)

HGT	0-3	4-10	11-21	22-33	34-47	48+	PCT	TOT OBS
<1	1.5	1.8	.0	.0	.0	.0	3.3	
1-2	1.0	15.0	3.6	.0	.0	.0	20.7	
3-4	.0	9.9	15.1	.9	.0	.0	25.9	
5-6	.1	2.5	15.9	5.5	.3	.0	24.4	
7	.0	.0	8.2	4.2	.5	.0	13.0	
8-9	.0	.0	2.7	3.9	.3	.0	6.9	
10-11	.0	.0	.0	2.7	.1	.0	2.8	
12	.0	.0	.1	1.8	.1	.0	2.1	
13-16	.0	.0	.0	.1	.3	.0	.4	
17-19	.0	.0	.1	.0	.0	.0	.1	
20-22	.0	.0	.1	.0	.0	.0	.1	
23-25	.0	.0	.0	.1	.0	.0	.1	
26-32	.0	.0	.0	.0	.0	.0	.0	
33-40	.0	.0	.0	.0	.0	.0	.0	
41-48	.0	.0	.0	.0	.0	.0	.0	
49-60	.0	.0	.0	.0	.0	.0	.0	
61-70	.0	.0	.0	.0	.0	.0	.0	
71-86	.0	.0	.0	.0	.0	.0	.0	
87+	.0	.0	.0	.0	.0	.0	.0	
TOT PCT	2.7	30.2	46.0	19.3	1.8	.0	100.0	668

PERIOD: (OVER-ALL) 1949-1969

TABLE 19

PERCENT FREQUENCY OF WAVE HEIGHT (FT) VS WAVE PERIOD (SECONDS)

PERIOD (SEC)	<1	1-2	3-4	5-6	7	8-9	10-11	12	13-16	17-19	20-22	23-25	26-32	33-40	41-48	49-60	61-70	71-86	87+	TOTAL	MEAN HGT
<6	.3	3.2	3.5	3.9	2.4	1.1	.5	.5	.1	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	151	5
6-7	.0	.0	2.3	5.3	6.6	3.4	2.3	.5	1.1	.5	.0	.1	.2	.0	.0	.0	.0	.0	.0	215	8
8-9	.0	.2	.5	4.9	5.1	4.1	5.0	1.8	2.2	.7	.4	.1	.1	.0	.0	.0	.0	.0	.0	242	9
10-11	.0	.0	.4	.6	2.5	3.8	2.7	1.2	3.2	.9	.6	.1	.2	.0	.0	.0	.0	.0	.0	158	11
12-13	.0	.0	.1	.3	1.0	1.0	1.3	1.0	1.8	.3	.6	.0	.2	.0	.0	.0	.0	.0	.0	75	12
>13	.0	.0	.0	.1	.0	.6	.2	.1	1.5	.2	.5	.1	.3	.0	.0	.0	.0	.0	.0	35	15
INDET	.8	.5	1.2	1.1	1.4	1.9	1.3	.4	.1	.1	.1	.1	.1	.0	.0	.0	.0	.0	.0	90	7
TOTAL	11	38	78	157	184	155	129	54	97	27	22	5	11	0	0	0	0	0	0	968	
PCT	1.1	3.9	8.1	16.2	19.0	16.0	13.3	5.6	10.0	2.8	2.3	.5	1.1	.0	.0	.0	.0	.0	.0	100.0	

PERIOD: (PRIMARY) 1913-1969  
(OVER-ALL) 1871-1969

JUNE

AREA 0015 AUSTRALIAN BIGHT SW  
35.65 126.5E

TABLE 1

PERCENT FREQUENCY OF WEATHER OCCURRENCE BY WIND DIRECTION

PRECIPITATION TYPE										OTHER WEATHER PHENOMENA						
WIND DIR	RAIN	RAIN SHWR	DRZL	FRZG PCPN	SNOW	OTHER FRZN PCPN	HAIL	PCPN AT DB TIME	PCPN PAST HOUR	THOR LTNG	FGD WD PCPN	FGD WD PCPN PAST HR	SMOKE HAZE	SPRAY BLWG DUST	NO SIG WEA	
N	2.5	4.2	1.5	.0	.0	.0	.0	8.2	2.2	1.0	.4	.0	1.5	.0	86.7	
NE	4.9	3.6	2.1	.0	.0	.0	.0	10.0	5.4	2.7	.0	.0	.0	.0	82.5	
E	5.5	5.9	4.0	.0	.0	.0	.0	16.5	5.3	.0	1.9	.0	.0	.0	76.3	
SE	4.3	8.3	2.9	.0	.0	.0	.0	15.5	6.9	1.1	.5	.0	.0	.0	76.0	
S	2.9	6.0	2.3	.0	.0	.0	.0	10.5	4.9	1.3	.6	.0	.0	.0	83.3	
SW	2.3	9.7	1.8	.0	.0	.0	.0	13.9	3.7	.1	1.4	.0	.0	.0	81.0	
W	6.4	11.4	2.1	.0	.0	.0	.0	19.8	2.1	2.8	.7	.0	.3	.0	76.3	
NW	4.7	2.9	2.6	.0	.0	.0	.4	10.5	3.4	2.1	1.7	.0	.1	.0	83.0	
VAR	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
CALM	.0	.0	.0	.0	.0	.0	.0	.0	4.2	8.3	.0	.0	.0	.0	87.5	
TOT PCT	4.1	6.4	2.1	.0	.0	.0	.1	12.6	3.6	1.6	.9	.0	.4	.0	81.6	
TOT OBS:	1641															

TABLE 2

PERCENT FREQUENCY OF WEATHER OCCURRENCE BY HOUR

HOUR (GMT)	PRECIPITATION TYPE							OTHER WEATHER PHENOMENA							
	RAIN	RAIN SHWR	DRZL	FRZG PCPN	SNOW	OTHER FRZN PCPN	HAIL	PCPN AT DB TIME	PCPN PAST HOUR	THOR LTNG	FGG WD PCPN	FGG WD PCPN PAST HR	SMOKE HAZE	SPRAY BLWG DUST BLWG SNOW	NO SIG WEA
00603	4.5	7.7	1.6	.0	.0	.0	.0	13.6	2.7	.5	.9	.0	.2	.0	82.4
06009	2.7	6.1	2.1	.0	.0	.0	.3	11.2	4.8	.5	.5	.0	.8	.0	82.4
12015	3.7	7.4	2.0	.0	.0	.0	.0	13.1	2.0	2.6	1.3	.0	.4	.0	81.4
18021	5.1	4.3	3.1	.0	.0	.0	.0	12.3	5.1	2.8	.5	.0	.0	.0	80.3
TOT PCT	4.0	6.5	2.2	.0	.0	.0	.1	12.6	3.5	1.6	.8	.0	.4	.0	81.6
TOT OBS:	1665														

TABLE 3

PERCENTAGE FREQUENCY OF WIND DIRECTION BY SPEED AND BY HOUR

WIND DIR	WIND SPEED (KNOTS)							48+	TOTAL OBS	PCT FRQ	MEAN SPD	HOUR (GMT)						
	0-3	4-10	11-21	22-33	34-47	00	03					06	09	12	15	18	21	
N	.4	5.5	9.1	4.2	.8	*		20.1	16.2		20.8	22.8	21.9	17.6	17.5	19.9	20.3	18.6
NE	.2	4.0	4.5	1.0	.1	.0		9.9	13.0		8.9	7.0	10.8	8.7	11.5	9.8	10.2	10.9
E	.4	1.5	2.1	.6	.0	.0		4.6	12.5		4.5	4.0	7.0	2.9	4.6	2.1	6.0	.0
SE	.1	1.4	2.5	.6	.3	.0		4.9	15.2		6.4	2.7	6.3	2.9	5.7	3.1	4.4	3.2
S	.4	3.4	4.1	1.1	.4	.1		9.7	14.3		10.6	9.9	8.3	8.9	9.6	11.8	8.7	10.5
SW	.6	4.2	5.5	2.6	.9	.1		14.0	16.6		14.2	14.6	12.4	17.4	14.2	13.7	13.0	15.9
W	.5	4.7	8.2	4.2	1.3	.2		19.0	17.6		16.4	20.1	17.7	24.1	20.0	23.5	17.1	21.8
NW	.3	4.3	7.6	3.6	.5	*		16.3	16.2		16.4	17.6	14.1	17.4	15.0	14.7	19.2	17.3
VAR	.0	.0	.0	.0	.0	.0		.0	.0		.0	.0	.0	.0	.0	.0	.0	.0
CALM	1.5							1.5	.0		1.8	1.3	1.5	.0	1.8	1.3	1.1	1.8
TOT OBS	99	632	954	391	93	11	2180		15.6		435	237	341	112	436	153	356	110
TOT PCT	4.5	29.0	43.8	17.9	4.3	.5		100.0			100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0

TABLE 3A

WIND DIR	WIND SPEED (KNOTS)					TOTAL OBS	PCT FREQ	MEAN SPD	HOUR (GMT)			
	0-6	7-16	17-27	28-40	41+				00 03	06 09	12 15	18 21
N	2.3	8.7	6.7	2.4	.1		20.1	16.2	21.5	20.9	18.2	19.9
NE	1.6	5.3	2.7	.3	.0		9.9	13.0	8.2	10.3	11.1	10.4
E	1.1	2.3	1.0	.2	.0		4.6	12.5	4.5	6.0	3.9	4.6
SE	.7	2.6	1.1	.6	.0		4.9	15.2	5.1	5.5	5.1	4.1
S	1.9	4.6	2.4	.6	.2		9.7	14.3	10.4	8.4	10.2	9.1
SW	2.0	6.1	3.4	1.9	.5		14.0	16.6	14.3	13.6	14.0	13.7
W	1.8	8.2	6.2	2.2	.7		19.0	17.6	17.7	19.3	20.9	18.2
NW	1.9	6.9	5.7	1.7	.1		16.3	16.2	16.8	15.0	14.9	18.7
VAR	.0	.0	.0	.0	.0		.0	.0	.0	.0	.0	.0
CALM	1.5						1.5	.0	1.6	1.1	1.7	1.3
TOT OBS	319	976	638	213	34	2180		15.6	672	453	589	466
TOT PCT	14.6	44.8	29.3	9.8	1.6		100.0		100.0	100.0	100.0	100.0

PERIOD: (PRIMARY) 1913-1969  
(OVER-ALL) 1871-1969

JUNE

AREA 0015 AUSTRALIAN BIGHT SW  
35.6S 126.5E

TABLE 4

PERCENTAGE FREQUENCY OF WIND SPEED BY HOUR (GMT)

HOUR	CALM	1-3	4-10	WIND SPEED (KNOTS)			48+	MEAN	PCT FREQ	TOTAL OBS
				11-21	22-33	34-47				
00003	1.6	3.7	30.4	42.4	17.0	4.3	.6	15.5	100.0	672
06009	1.1	3.1	26.3	44.4	19.6	5.1	.4	16.2	100.0	453
12015	1.7	2.9	30.4	43.1	17.5	4.1	.3	15.1	100.0	589
18021	1.3	2.4	27.9	45.9	18.2	3.6	.6	15.6	100.0	466
TOT	32	67	632	954	391	93	11	15.6		2180
PCT	1.5	3.1	29.0	43.8	17.9	4.3	.5		100.0	

TABLE 5

PCT FREQ OF TOTAL CLOUD AMOUNT (EIGHTHS)  
BY WIND DIRECTION

WIND DIR	0-2	3-4	5-7	8-6	TOTAL OBS	MEAN CLOUD COVER
N	4.3	2.8	8.2	4.4	5.1	5.1
NE	2.5	1.7	3.4	3.2	5.0	5.0
E	.4	.8	2.3	2.3	6.2	6.2
SE	.8	.9	3.5	1.7	5.6	5.6
S	.8	2.0	3.7	1.7	5.4	5.4
SW	2.6	3.1	5.8	2.0	4.8	4.8
W	5.4	4.1	5.6	2.4	4.2	4.2
NW	5.0	2.5	4.6	3.5	4.6	4.6
VAR	.0	.0	.0	.0	.0	.0
CALM	.8	.2	.7	.2	3.9	3.9
TOT OBS	243	194	406	232	1075	4.9
TOT PCT	22.6	18.0	37.8	21.6	100.0	

TABLE 6

PERCENTAGE FREQUENCY OF CEILING HEIGHTS (FT, NH >4/8)  
AND OCCURRENCE OF NH <5/8 BY WIND DIRECTION

000	150	300	600	1000	2000	3500	5000	6500	8000+	NH <5/8	TOTAL
149	299	599	999	1999	3499	4999	6499	7999		ANY HGT	OBS
.0	.0	.1	1.7	3.5	2.2	.8	.5	.1	.2	11.0	
.0	.0	.1	.6	2.0	1.0	.3	.6	.1	.0	6.0	
.0	.0	.2	1.3	1.4	.8	.2	.1	.0	.0	2.0	
.1	.0	.3	.7	1.6	.8	.3	.0	.0	.0	3.1	
.0	.0	.7	1.7	1.1	.2	.4	.0	.0	.0	4.1	
.0	.0	.1	1.7	1.9	.8	.7	.3	.0	.1	7.9	
.0	.0	.3	1.0	3.0	.7	.3	.3	.0	.0	12.0	
.0	.0	.2	.9	2.4	1.0	.5	.2	.0	.3	10.1	
.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
.0	.0	.0	.1	.5	.2	.0	.0	.0	.0	1.1	
1	0	14	91	192	93	36	25	2	6	615	1075
.1	.0	1.3	8.5	17.9	8.7	3.3	2.3	.2	.6	57.2	100.0

TABLE 7

CUMULATIVE PCT FREQ OF SIMULTANEOUS OCCURRENCE  
OF CEILING HEIGHT (NH >4/8) AND VSBY (NM)

CEILING (FEET)	VSBY (NM)							
	* OR >10	* OR >5	* OR >2	* OR >1	* OR >1/2	* OR >1/4	* OR >50YD	* OR >0
* OR >5000	.5	.7	.7	.7	.7	.7	.7	.7
* OR >4000	2.3	3.0	3.0	3.0	3.0	3.0	3.0	3.0
* OR >3500	5.2	6.1	6.4	6.4	6.4	6.4	6.4	6.4
* OR >3000	12.8	14.5	15.0	15.0	15.0	15.0	15.0	15.0
* OR >2000	25.5	31.1	32.8	32.8	32.8	32.8	32.8	32.8
* OR >1000	31.4	39.2	41.3	41.3	41.3	41.3	41.3	41.3
* OR >600	31.9	40.0	42.5	42.6	42.6	42.6	42.6	42.6
* OR >300	31.9	40.0	42.5	42.6	42.6	42.6	42.6	42.6
* OR >150	31.9	40.0	42.5	42.6	42.6	42.6	42.6	42.6
* OR >0	32.0	40.1	42.6	42.7	42.7	42.7	42.7	42.7
TOTAL	347	434	461	462	462	462	462	462

TOTAL NUMBER OF OBS: 1083

PCT FREQ NH <5/8: 57.3

TABLE 7A

PERCENTAGE FREQ OF LOW CLOUDS (EIGHTHS)

0	1	2	3	4	5	6	7	8	OBS	TOTAL OBS
10.6	11.4	11.3	11.7	11.4	8.2	9.2	9.8	16.2	.1	1194



PERIOD: (PRIMARY) 1913-1969  
(OVER-ALL) 1871-1969

JUNE

AREA 0015 AUSTRALIAN BIGHT SW  
35.65 126.56

TABLE 8

PERCENT FREQ OF WIND DIRECTION VS OCCURRENCE OR NON-OCCURRENCE OF  
PRECIPITATION WITH VARYING VALUES OF VISIBILITY

VISBY (NM)		N	NE	E	SE	S	SW	W	NW	VAR	CALM	PCT	TOTAL OBS
<1/2	PCP	.0	.1	.0	.0	.0	.0	.1	.0	.0	.0	.1	
	NO PCP	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
	TOT %	.0	.1	.0	.0	.0	.0	.1	.0	.0	.0	.1	
1/2<1	PCP	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
	NO PCP	.1	.0	.0	.0	.0	.0	.1	.3	.0	.0	.5	
	TOT %	.1	.0	.0	.0	.0	.0	.1	.3	.0	.0	.5	
1<2	PCP	.0	*	*	.0	.0	.0	.0	.0	.0	.0	.1	
	NO PCP	.1	.0	.0	.0	.0	.0	.0	.0	.0	.0	.1	
	TOT %	.1	*	*	.0	.0	.0	.0	.0	.0	.0	.1	
2<5	PCP	.1	.0	.1	.1	.0	.2	.4	.4	.0	.0	1.2	
	NO PCP	*	.1	.0	.1	.0	*	.2	.3	.0	.0	.7	
	TOT %	.1	.1	.1	.2	.0	.2	.6	.6	.0	.0	1.8	
5<10	PCP	1.3	.6	.5	.3	.8	1.4	2.5	.8	.0	.0	8.2	
	NO PCP	5.7	2.5	.5	.8	3.0	2.9	3.6	4.1	.0	.1	23.2	
	TOT %	7.0	3.1	1.0	1.0	3.8	4.2	6.1	5.0	.0	.1	31.3	
10+	PCP	.9	.3	.2	.5	.2	.3	.7	.5	.0	.0	3.0	
	NO PCP	13.4	6.6	3.5	4.0	5.6	8.6	10.7	9.6	.0	1.3	63.1	
	TOT %	13.7	6.9	3.7	4.5	5.7	8.9	11.4	10.0	.0	1.3	66.1	
TOT OBS													
TOT PCT													
20.9 10.2 4.9 5.7 9.4 13.3 16.2 15.9 .0 1.5 100.0													

1641

TABLE 9

PERCENT FREQ OF WIND DIRECTION VS WIND SPEED  
WITH VARYING VALUES OF VISIBILITY

VISBY (NM)	SPO KTS	N	NE	E	SE	S	SW	W	NW	VAR	CALM	PCT	TOTAL OBS
<1/2	0-3	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
	4-10	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
	11-21	.0	.1	.0	.0	.0	.0	.0	.0	.0	.0	.1	
	22+	.0	.0	.0	.0	.0	.0	.1	.0	.0	.0	.1	
	TOT %	.0	.1	.0	.0	.0	.0	.1	.0	.0	.0	.1	
1/2<1	0-3	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
	4-10	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
	11-21	.1	.0	.0	.0	.0	.0	.1	.1	.0	.0	.3	
	22+	.0	.0	.0	.0	.0	.0	.1	.1	.0	.0	.2	
	TOT %	.1	.0	.0	.0	.0	.0	.1	.3	.0	.0	.5	
1<2	0-3	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
	4-10	.0	*	*	.0	.0	.0	.0	.0	.0	.0	.1	
	11-21	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
	22+	.1	.0	.0	.0	.0	.0	.0	.0	.0	.0	.1	
	TOT %	.1	*	*	.0	.0	.0	.0	.0	.0	.0	.1	
2<5	0-3	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
	4-10	.0	.0	.1	.0	.0	.1	.0	.1	.0	.0	.2	
	11-21	.0	.0	.0	.0	.0	.1	.2	.3	.0	.0	.6	
	22+	.1	.1	.0	.2	.0	.1	.3	.2	.0	.0	.9	
	TOT %	.1	.1	.1	.2	.0	.2	.5	.6	.0	.0	1.7	
5<10	0-3	.1	.1	.0	*	.2	.3	.1	.1	.0	.1	1.1	
	4-10	1.5	.9	.2	.1	.6	.9	1.2	1.2	.0	.0	6.8	
	11-21	3.0	1.5	.5	.5	1.7	1.5	1.9	2.3	.0	.0	12.9	
	22+	2.2	.6	.2	.3	.9	1.3	2.6	1.2	.0	.0	9.3	
	TOT %	6.8	3.0	1.0	1.0	3.6	4.0	5.9	4.8	.0	.1	30.1	
10+	0-3	.4	.2	.4	.1	.2	.2	.3	.2	.0	1.4	3.5	
	4-10	3.7	3.0	1.1	1.4	2.2	2.7	2.9	2.7	.0	.0	19.3	
	11-21	6.4	3.4	1.9	2.5	3.1	3.8	5.0	4.8	.0	.0	32.0	
	22+	3.4	.5	.5	.5	.6	2.1	2.7	2.4	.0	.0	12.8	
	TOT %	13.9	7.1	3.8	4.5	6.2	8.9	11.5	10.0	.0	1.4	67.5	
TOT OBS													
TOT PCT													
20.9 10.3 4.9 5.7 9.8 13.1 16.1 15.7 .0 1.6 100.0													

1733

JUNE

PERIOD: (PRIMARY) 1913-1969  
(OVER-ALL) 1871-1969AREA 0015 AUSTRALIAN BIGHT SW  
35.65 126.5E

TABLE 10

PERCENT FREQUENCY OF CEILING HEIGHTS (FEET, NH >4/8) AND  
OCCURRENCE OF NH <5/8 BY HOUR

HR	000	150	300	600	1000	2000	3500	5000	6500	8000+	TOTAL	NH <5/8 ANY HGT	TOTAL OBS
(GMT)	149	299	599	999	1999	3499	4999	6499	7999				
00003	.0	.0	1.8	10.0	16.4	10.3	2.5	1.1	.0	.7	42.7	57.3	281
06009	.0	.0	1.3	7.7	16.5	7.4	4.4	2.4	.0	.3	40.1	59.9	297
12015	.4	.0	.7	7.1	17.4	7.8	3.2	2.5	.4	.0	39.4	60.6	282
18021	.0	.0	1.1	7.6	17.8	7.2	2.5	2.9	.4	1.1	40.6	59.4	276
TOT	1	0	14	92	193	93	36	25	2	6	462	674	1136
PCT	.1	.0	1.2	8.1	17.0	8.2	3.2	2.2	.2	.5	40.7	59.3	100.0

TABLE 11

PERCENT FREQUENCY VSBY (NM) BY HOUR

HR	<1/2	1/2<1	1<2	2<5	5<10	10+	TOTAL
(GMT)							OBS
00003	.0	.6	.0	1.5	34.2	63.7	474
06009	.0	.3	.5	2.6	24.1	72.6	390
12015	.0	.6	.0	1.6	34.8	62.9	485
18021	.5	.2	.0	1.5	26.5	71.3	408
TOT	2	8	2	31	533	1181	1757
PCT	.1	.5	.1	1.8	30.3	67.2	100.0

TABLE 12

CUMULATIVE PCT FREQ OF RANGES OF VSBY (NM) AND/OR  
CEILING HGT (FEET, NH >4/8) BY HOUR

HR	<150 <5000	<600 <1	<1000 <5	1000+ AND 5+	NH <5/8 AND 5+	TOTAL
(GMT)						OBS
00003	.0	1.8	12.5	31.7	55.7	271
06009	.0	1.4	12.7	29.2	58.1	284
12015	.4	1.1	10.6	31.3	58.1	265
18021	.0	1.1	10.3	32.3	57.4	263
TOT	1	15	125	337	621	1083
PCT	.1	1.4	11.5	31.1	57.3	100.0

TABLE 13

PERCENT FREQUENCY OF RELATIVE HUMIDITY BY TEMP

TEMP F	0-29	30-39	40-49	50-59	60-69	70-79	80-89	90-100	TOTAL	PCT
									OBS	FREQ
65/69	.0	.0	.0	.0	.4	.1	.1	.2	12	.9
60/64	.0	.1	.1	.4	2.1	9.6	16.3	6.5	477	35.1
55/59	.0	.0	.1	1.8	7.6	16.5	15.3	9.1	684	50.3
50/54	.0	.0	.0	.7	3.8	3.5	3.2	2.1	182	13.4
45/49	.0	.0	.0	.0	.0	.1	.1	.1	4	.3
TOTAL	0	2	4	39	187	405	477	245	1359	100.0
PCT	.0	.1	.3	2.9	13.8	29.8	35.1	18.0		

TABLE 14

PERCENT FREQUENCY OF WIND DIRECTION BY TEMP

N	NE	E	SE	S	SW	W	NW	VAR	CALM
.3	.1	.0	.0	.0	.0	.1	.1	.0	.2
13.1	4.8	.5	.7	.5	.7	5.3	9.4	.0	.1
7.3	5.0	4.0	4.2	5.7	8.1	9.6	5.3	.0	1.1
.3	.3	.9	1.5	3.2	4.0	2.7	.3	.0	.2
.0	.0	.0	.0	.1	.1	.1	.0	.0	.0
21.0	10.2	5.4	6.4	9.5	13.0	17.9	15.0	.0	1.6

TABLE 15

MEANS, EXTREMES AND PERCENTILES OF TEMP (DEG F) BY HOUR

HR	MAX	99%	95%	50%	5%	1%	MIN	MEAN	TOTAL
(GMT)									OBS
00003	68	65	63	58	52	50	48	58.0	657
06009	67	65	64	59	54	51	50	58.6	448
12015	68	64	62	58	52	50	49	57.5	591
18021	68	63	62	57	52	50	50	57.4	467
TOT	68	64	63	58	52	50	48	57.9	2163

TABLE 16

PERCENT FREQUENCY OF RELATIVE HUMIDITY BY HOUR

HR	0-29	30-39	60-69	70-79	80-89	90-100	MEAN	TOTAL
(GMT)								OBS
00003	.0	3.1	15.3	27.5	38.1	16.1	80	360
06009	.0	5.0	15.0	30.8	32.4	16.8	79	321
12015	.0	2.7	12.7	27.6	37.4	19.5	81	369
18021	.0	3.0	12.5	33.8	31.1	19.5	80	328
TOT	0	47	191	411	481	248	80	1378

## JUNE

PERIOD: (PRIMARY) 1913-1969  
(OVER-ALL) 1871-1969

TABLE 17

AREA 0015 AUSTRALIAN BIGHT SW  
35.6S 126.5E

PCT FREQ OF AIR TEMPERATURE (DEG F) AND THE OCCURRENCE OF FOG (WITHOUT PRECIPITATION)  
VS AIR-SEA TEMPERATURE DIFFERENCE (DEG F)

AIR-SEA TMP DIF	45 48	49 52	53 56	57 60	61 64	65 68	TOT	W FOG	WD FOG
11/13	.0	.0	.0	.0	.1	.0	1	.0	.1
9/10	.0	.0	.0	.1	.0	.0	1	.0	.1
7/8	.0	.0	.0	.1	.1	.0	3	.0	.2
6	.0	.0	.0	.1	.3	.1	7	.0	.5
5	.0	.0	.0	.2	.2	.1	7	.0	.5
4	.0	.0	.1	.1	1.7	.0	2.6	.0	1.9
3	.0	.0	.1	.8	2.4	.1	4.8	.0	3.4
2	.0	.0	.1	1.8	3.6	.2	7.9	.1	5.6
1	.0	.0	.1	6.4	4.9	.1	16.2	.2	11.3
0	.0	.0	.7	10.7	4.3	.1	22.3	.3	15.6
-1	.0	.1	1.8	9.8	2.1	.0	19.3	.2	13.5
-2	.0	.0	2.6	9.1	.8	.0	17.4	.2	12.2
-3	.0	.1	6.4	4.4	.3	.0	15.7	.0	11.2
-4	.0	.5	5.6	2.2	.1	.0	11.9	.0	8.5
-5	.0	.4	3.9	1.4	.0	.0	8.0	.0	5.7
-6	.1	.9	2.7	.6	.0	.0	6.0	.0	4.3
-7/-8	.0	1.2	2.0	.2	.0	.0	4.8	.0	3.4
-9/-10	.0	.3	.2	.2	.0	.0	1.0	.0	.7
-11/-13	.0	.1	.1	.0	.0	.0	.3	.0	.2
-14/-16	.0	.1	.0	.0	.0	.0	.2	.0	.1
TOTAL	1	52	369	674	295	12	1403	14	1389
PCT	.1	3.7	26.3	48.0	21.0	.9	100.0	1.0	99.0

PERIOD: (OVER-ALL) 1963-1969

TABLE 18

PCT FREQ OF WIND SPEED (KTS) AND DIRECTION VERSUS SEA HEIGHTS (FT)

HGT	N						PCT	NE						PCT
	1-3	4-10	11-21	22-33	34-47	48+		1-3	4-10	11-21	22-33	34-47	48+	
<1	.0	.3	.0	.0	.0	.0	.3	.0	.0	.0	.0	.0	.0	.0
1-2	.0	1.9	.6	.0	.0	.0	2.5	.0	2.0	.7	.0	.0	.0	2.7
3-4	.0	2.8	4.2	.2	.0	.0	7.2	.0	.9	2.5	.3	.0	.0	3.7
5-6	.0	.4	2.8	1.5	.0	.0	4.7	.0	.3	1.4	.2	.0	.0	1.9
7	.0	.0	.8	1.9	.4	.0	3.1	.0	.0	.5	.2	.0	.0	1.7
8-9	.0	.0	.2	.7	.0	.0	.8	.0	.0	.0	.2	.0	.0	.2
10-11	.0	.0	.0	.5	.2	.0	.6	.0	.0	.0	.2	.0	.0	.2
12	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
13-16	.0	.0	.0	.2	.4	.0	.6	.0	.0	.0	.0	.0	.0	.0
17-19	.0	.2	.0	.0	.0	.0	.2	.0	.0	.0	.0	.0	.0	.0
20-22	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
23-25	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
26-32	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
33-40	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
41-48	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
49-60	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
61-70	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
71-86	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
87+	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
TOT PCT	.0	5.6	8.5	5.0	1.0	.0	20.0	.0	3.2	5.2	1.1	.0	.0	9.5

HGT	E						PCT	SE						PCT
	1-3	4-10	11-21	22-33	34-47	48+		1-3	4-10	11-21	22-33	34-47	48+	
<1	.4	.2	.0	.0	.0	.0	.6	.0	.0	.0	.0	.0	.0	.6
1-2	.2	.3	.2	.0	.0	.0	.7	.0	.4	.3	.0	.0	.0	.6
3-4	.0	.2	.9	.1	.0	.0	1.2	.0	.2	.9	.2	.0	.0	1.2
5-6	.0	.0	.3	.8	.0	.0	1.1	.0	.2	.5	.4	.0	.0	1.0
7	.0	.0	.3	.0	.0	.0	.3	.0	.0	.2	.3	.5	.0	1.0
8-9	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.3	.0	.3
10-11	.0	.0	.1	.6	.0	.0	.8	.0	.0	.0	.1	.0	.0	.1
12	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
13-16	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
17-19	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
20-22	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
23-25	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
26-32	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
33-40	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
41-48	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
49-60	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
61-70	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
71-86	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
87+	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
TOT PCT	.6	.6	1.9	1.3	.0	.0	4.6	.0	1.3	1.9	1.0	.8	.0	5.0

PERIOD: (OVER-ALL) 1963-1969

JUNE

TABLE 18 (CONT)

AREA 0015 AUSTRALIAN RIGHT SW  
35.05 126.5E

PCT FREQ OF WIND SPEED (KTS) AND DIRECTION VERSUS SEA HEIGHTS (FT)

HGT	S								SW								PCT
	1-3	4-10	11-21	22-33	34-47	48+	PCT		1-3	4-10	11-21	22-33	34-47	48+	PCT		
<1	.0	.0	.0	.0	.0	.0	.0		.3	.2	.0	.0	.0	.0	.0	.5	
1-2	.0	1.3	.3	.0	.0	.0	1.6		.0	1.1	.0	.0	.0	.0	.0	1.2	
3-4	.0	.4	.8	.0	.0	.0	1.3		.2	1.1	.7	.2	.0	.0	.0	2.1	
5-6	.0	.0	1.2	.2	.0	.0	1.4		.0	.2	2.7	1.2	.2	.0	.0	4.3	
7	.0	.0	1.0	.2	.0	.0	1.2		.0	.0	.5	.0	.2	.0	.0	.7	
8-9	.0	.0	.0	.0	.0	.0	.0		.0	.0	.2	.3	.1	.0	.0	.5	
10-11	.0	.0	.0	.0	.0	.0	.0		.0	.0	.4	.5	.1	.0	.0	.9	
12	.0	.0	.0	.0	.0	.0	.0		.0	.0	.0	.0	.1	.2	.3	.6	
13-16	.0	.0	.0	.0	.0	.0	.0		.0	.0	.0	.4	.2	.0	.0	.4	
17-19	.0	.0	.0	.0	.0	.0	.0		.0	.0	.0	.2	.2	.0	.0	.5	
20-22	.0	.0	.0	.0	.0	.0	.0		.0	.0	.0	.0	.4	.2	.0	.0	
23-25	.0	.0	.0	.0	.0	.0	.0		.0	.0	.0	.0	.0	.0	.0	.0	
26-32	.0	.0	.0	.0	.0	.0	.0		.0	.0	.0	.0	.0	.0	.0	.0	
33-40	.0	.0	.0	.0	.0	.0	.0		.0	.0	.0	.0	.0	.0	.0	.0	
41-48	.0	.0	.0	.0	.0	.0	.0		.0	.0	.0	.0	.0	.0	.0	.0	
49-60	.0	.0	.0	.0	.0	.0	.0		.0	.0	.0	.0	.0	.0	.0	.0	
61-70	.0	.0	.0	.0	.0	.0	.0		.0	.0	.0	.0	.0	.0	.0	.0	
71-86	.0	.0	.0	.0	.0	.0	.0		.0	.0	.0	.0	.0	.0	.0	.0	
87+	.0	.0	.0	.0	.0	.0	.0		.0	.0	.0	.0	.0	.0	.0	.0	
TOT PCT	.0	1.8	3.3	.4	.0	.0	5.5		.5	2.6	4.5	2.8	1.3	.4	12.0		

HGT	W								NW								TOTAL PCT
	1-3	4-10	11-21	22-33	34-47	48+	PCT		1-3	4-10	11-21	22-33	34-47	48+	PCT		
<1	.0	.2	.0	.0	.0	.0	.2		.0	.0	.2	.0	.0	.0	.0	.2	
1-2	.0	1.2	.1	.0	.0	.0	1.3		.2	2.9	.0	.0	.0	.0	.0	3.1	
3-4	.0	1.4	2.8	.0	.0	.0	4.3		.0	1.0	2.4	.6	.0	.0	.0	4.1	
5-6	.0	.4	5.8	.4	.0	.0	6.6		.0	.4	3.3	.9	.0	.0	.0	4.6	
7	.0	.0	1.7	1.4	.1	.0	3.2		.0	.0	2.5	1.4	.0	.0	.0	3.9	
8-9	.0	.0	.3	.8	.5	.0	1.7		.0	.0	.5	1.2	.0	.0	.0	1.7	
10-11	.0	.0	.4	.4	.5	.0	1.3		.0	.0	.0	.9	.2	.0	.0	1.1	
12	.0	.0	.3	.8	.2	.0	1.3		.0	.0	.0	.0	.0	.0	.0	.0	
13-16	.0	.0	.0	.4	.3	.0	1.8		.0	.0	.0	.2	.2	.0	.0	.4	
17-19	.0	.0	.0	.1	.0	.0	.1		.0	.0	.0	.0	.0	.0	.0	.0	
20-22	.0	.0	.0	.2	.1	.0	.3		.0	.0	.0	.0	.2	.0	.0	.2	
23-25	.0	.0	.0	.0	.0	.0	.0		.0	.0	.0	.0	.0	.0	.0	.0	
26-32	.0	.0	.0	.0	.3	.2	.5		.0	.0	.0	.0	.0	.0	.0	.0	
33-40	.0	.0	.0	.0	.0	.0	.0		.0	.0	.0	.0	.0	.0	.0	.0	
41-48	.0	.0	.0	.0	.0	.0	.0		.0	.0	.0	.0	.0	.0	.0	.0	
49-60	.0	.0	.0	.0	.0	.0	.0		.0	.0	.0	.0	.0	.0	.0	.0	
61-70	.0	.0	.0	.0	.0	.0	.0		.0	.0	.0	.0	.0	.0	.0	.0	
71-86	.0	.0	.0	.0	.0	.0	.0		.0	.0	.0	.0	.0	.0	.0	.0	
87+	.0	.0	.0	.0	.0	.0	.0		.0	.0	.0	.0	.0	.0	.0	.0	
TOT PCT	.0	3.2	11.2	4.0	2.7	.4	21.5		.2	4.3	8.9	5.4	.7	.0	19.4	97.7	

WIND SPEED (KTS) VS SEA HEIGHT (FT)

HGT	0-3	4-10	11-21	22-33	34-47	48+	PCT	TOT OBS
<1	3.0	1.6	.2	.0	.0	.0	4.8	
1-2	.3	11.1	2.2	.0	.0	.0	13.6	
3-4	.2	8.2	15.2	1.6	.0	.0	25.2	
5-6	.0	1.9	18.0	5.6	.2	.0	25.7	
7	.0	.0	7.4	5.5	1.3	.0	14.1	
8-9	.0	.0	1.1	3.2	1.0	.0	5.3	
10-11	.0	.0	1.0	3.2	1.0	.0	5.1	
12	.0	.0	.0	.3	1.0	.3	1.6	
13-16	.0	.0	.0	1.1	1.1	.2	2.4	
17-19	.0	.2	.0	.3	.2	.0	.6	
20-22	.0	.0	.0	.2	.6	.2	1.0	
23-25	.0	.0	.0	.0	.0	.0	.0	
26-32	.0	.0	.0	.0	.3	.2	.5	
33-40	.0	.0	.0	.0	.0	.0	.0	
41-48	.0	.0	.0	.0	.0	.0	.0	
49-60	.0	.0	.0	.0	.0	.0	.0	
61-70	.0	.0	.0	.0	.0	.0	.0	
71-86	.0	.0	.0	.0	.0	.0	.0	
87+	.0	.0	.0	.0	.0	.0	.0	
TOT PCT	3.5	23.0	45.1	21.0	6.6	.8	100.0	623

PERIOD: (OVER-ALL) 1949-1969

TABLE 19

PERCENT FREQUENCY OF WAVE HEIGHT (FT) VS WAVE PERIOD (SECONDS)

PERIOD (SEC)	<1	1-2	3-4	5-6	7	8-9	10-11	12	13-16	17-19	20-22	23-25	26-32	33-40	41-48	49-60	61-70	71-86	87+	TOTAL	MEAN HGT
<6	.2	3.7	7.3	2.7	1.5	.3	.1	.0	.1	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	142
6-7	.0	.5	2.1	5.2	5.7	2.8	1.7	1.5	1.1	.6	.0	.3	.0	.0	.0	.0	.0	.0	.0	.0	191
8-9	.1	.0	1.2	3.2	5.6	3.6	3.6	.7	2.5	.6	.5	.2	.0	.0	.0	.0	.0	.0	.0	.0	193
10-11	.0	.0	.3	1.0	3.3	2.5	2.9	1.9	2.1	1.0	.7	.3	.2	.0	.0	.0	.0	.0	.0	.0	145
12-13	.0	.0	.0	.3	.9	1.4	2.0	2.0	1.8	.9	.3	.2	.0	.0	.0	.0	.0	.0	.0	.0	88
>13	.0	.0	.0	.1	.2	.2	1.0	.5	.6	.5	.3	.5	.5	.0	.0	.0	.0	.0	.0	.0	38
INDET	.9	.5	1.1	1.0	2.0	1.1	1.2	.9	.9	.1	.1	.0	.2	.0	.0	.0	.0	.0	.0	.0	90
TOTAL	11	41	108	120	171	106	112	66	81	32	17	14	6	2	0	0	0	0	0	0	887
PCT	1.2	4.6	12.2	13.5	19.3	12.0	12.6	7.4	9.1	3.6	1.9	1.6	.7	.2	.0	.0	.0	.0	.0	.0	100.0

JULY

PERIOD: (PRIMARY) 1913-1970  
(OVER-ALL) 1878-1970AREA 0015 AUSTRALIAN HIGHT SW  
35.6S 126.5E

TABLE 1

PERCENT FREQUENCY OF WEATHER OCCURRENCE BY WIND DIRECTION

PRECIPITATION TYPE										OTHER WEATHER PHENOMENA						
WIND DIR	RAIN	RAIN SHWR	DRZL	FRZG PCPN	SNOW	OTHER FRZN PCPN	HAIL	PCPN AT OB TIME	PCPN PAST HOUR	THDR LTNG	FGG WD PCPN	FGG WD PCPN PAST HR	SMOKE HAZE	SPRAY BLWG DUST BLWG SNOW	NO SIG WEA	
N	4.7	4.0	1.1	.0	.0	.0	.0	9.8	2.2	2.0	2.4	.0	.6	.0	83.0	
NE	5.1	3.4	2.8	.0	.0	.0	.0	11.3	2.5	2.3	.0	.0	.6	.0	83.3	
E	5.4	3.2	3.2	.0	.0	.0	.0	11.9	7.6	2.2	.0	.0	.0	.0	78.4	
SE	3.0	1.5	4.5	.0	.0	.0	.0	9.1	2.3	.0	3.0	.0	3.0	.0	82.6	
S	2.5	4.3	.8	.0	.0	.0	.0	7.7	4.0	.7	3.0	.0	.0	.0	85.4	
SW	3.1	11.4	2.7	.0	.0	.0	.3	17.6	5.4	.2	1.0	.0	.0	.0	75.9	
W	3.7	11.7	1.5	.0	.0	.0	.0	16.9	5.3	1.4	.7	.0	.0	.3	75.7	
NW	3.8	6.3	1.4	.0	.0	.0	.3	11.8	2.8	1.4	1.1	.0	.0	.0	83.4	
VAR	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
CALM	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	100.0	
TOT PCT	3.8	7.6	1.8	.0	.0	.0	.1	13.2	4.0	1.3	1.3	.0	.2	.1	80.2	
TOT OBS:	1597															

TABLE 2

PERCENT FREQUENCY OF WEATHER OCCURRENCE BY HOUR

HOUR (GMT)	PRECIPITATION TYPE							OTHER WEATHER PHENOMENA								
	RAIN	RAIN SHWR	DRZL	FRZG PCPN	SNOW	OTHER FRZN PCPN	HAIL	PCPN AT OB TIME	PCPN PAST HOUR	THDR LTNG	FGG WD PCPN	FGG WD PCPN PAST HR	SMOKE HAZE	SPRAY BLWG BLWG	DUST SNOW	NO SIG WEA
00003	4.3	7.9	1.6	.0	.0	.0	.2	14.0	3.4	.7	1.6	.0	.2	.0		80.5
06009	2.7	8.6	1.1	.0	.0	.0	.3	12.7	4.6	.0	1.1	.0	.0	.0		81.6
12015	4.9	8.5	2.0	.0	.0	.0	.0	15.5	3.6	2.5	1.3	.0	.4	.2		76.7
18021	2.8	4.7	2.2	.0	.0	.0	.0	9.7	4.7	2.2	1.1	.0	.0	.0		82.5
TOT PCT	3.8	7.5	1.7	.0	.0	.0	.1	13.2	4.0	1.4	1.3	.0	.2	.1		80.2
TOT OBS:	1518															

TABLE 3

PERCENTAGE FREQUENCY OF WIND DIRECTION BY SPEED AND BY HOUR

WIND DIR	WIND SPEED (KNOTS)							48+	TOTAL OBS	PCT FREQ	MEAN SPD	HOUR (GMT)						
	0-3	4-10	11-21	22-33	34-47	00	03					06	09	12	15	18	21	
N	.3	4.2	7.9	4.6	.7	.0		17.6	16.9	18.2	20.5	19.0	20.3	15.2	17.7	12.9	26.2	
NE	.3	1.6	3.1	1.7	.1	*		6.8	10.6	7.0	8.3	5.0	5.1	6.2	9.8	7.1	8.2	
E	.4	.9	1.4	.4	.1	.0		3.2	14.1	3.5	3.9	1.7	2.1	3.9	5.1	2.2	4.8	
SE	.1	1.3	.6	.0	.0	.0		2.0	9.9	2.5	1.4	1.8	.0	2.0	3.5	2.1	1.4	
S	.3	2.9	3.9	1.3	.1	.1		8.6	14.5	9.2	7.4	10.0	8.9	7.9	6.0	9.3	9.1	
SW	.1	3.2	8.2	5.1	1.4	*		17.9	19.1	18.7	15.0	21.0	14.8	18.8	15.2	20.1	8.7	
W	.4	5.2	9.3	6.6	1.7	.1		23.3	18.6	21.1	23.7	21.4	25.4	25.2	20.4	25.9	23.1	
NW	.2	5.3	9.1	4.2	.9	*		19.6	16.7	19.3	18.4	19.1	23.3	20.3	19.1	20.0	17.5	
VAR	.0	.0	.0	.0	.0	.0		.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
CALM	.8							.8	.0	.5	1.4	.9	.0	.5	3.2	.3	1.0	
TOT OBS	58	517	917	503	105	6	2106	17.1		420	217	329	118	433	158	327	104	
TOT PCT	2.8	24.5	43.5	23.9	5.0	.3		100.0		100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	

TABLE 3A

WIND DIR	WIND SPEED (KNOTS)					TOTAL OBS	PCT FREQ	MEAN SPD	HOUR (GMT)				
	0-6	7-16	17-27	28-40	41+				00	03	06	12	18
N	1.8	6.6	7.2	2.0	*		17.6	16.9	19.0	19.4	15.9	16.1	
NE	.9	2.8	2.2	.9	.1		6.8	10.6	7.5	5.0	7.2	7.4	
E	.7	1.4	.7	.4	*		3.2	14.1	3.6	1.8	4.2	2.8	
SE	.4	1.4	.2	.0	.0		2.0	9.9	2.1	1.3	2.4	1.9	
S	1.4	4.1	2.5	.5	.1		8.6	14.5	8.6	9.7	7.4	9.3	
SW	1.1	6.0	7.6	3.1	.2		17.9	19.1	17.4	19.4	17.9	17.3	
W	1.8	8.3	9.1	3.7	.5		23.3	18.6	22.0	22.4	23.9	25.2	
NW	1.7	8.5	7.3	2.1	.2		19.6	16.7	19.0	20.2	20.0	19.4	
VAR	.0	.0	.0	.0	.0		.0	.0	.0	.0	.0	.0	
CALM	.8						.8	.0	.8	.7	1.2	.5	
TOT OBS	221	820	773	267	25	2106	17.1		637	447	591	431	
TOT PCT	10.5	38.9	36.7	12.7	1.2		100.0		100.0	100.0	100.0	100.0	



PERIOD: (PRIMARY) 1913-1970  
(OVER-ALL) 1878-1970

JULY

AREA 0015 AUSTRALIAN BIGHT SW  
35.65 126.5E

TABLE 4

PERCENTAGE FREQUENCY OF WIND SPEED BY HOUR (GMT)

HOOR	CALM	1-3	4-10	WIND SPEED (KNOTS)			48+	MEAN	PCT FREQ	TOTAL OBS
				11-21	22-33	34-47				
00003	.8	2.4	26.8	41.6	22.9	5.3	.2	16.6	100.0	637
06009	.7	1.3	20.1	43.8	27.7	6.0	.2	18.3	100.0	447
12015	1.2	1.9	24.5	45.2	27.7	3.9	.7	16.8	100.0	591
18021	.5	2.1	25.8	43.9	23.0	4.9	.0	16.8	100.0	431
TOT	17	41	517	917	803	105	6	17.1		2106
PCT	.8	1.9	24.5	43.5	23.9	5.0	.3		100.0	

TABLE 5

PCT FREQ OF TOTAL CLOUD AMOUNT (EIGHTHS)  
BY WIND DIRECTION

WIND DIR	0-2	3-4	5-7	8 & OBSCD	TOTAL OBS	MEAN CLOUD COVER
N	4.0	2.1	6.7	3.2		4.9
NE	1.4	1.1	2.2	1.2		4.8
E	.2	.4	1.0	.4		5.8
SE	.5	.1	1.1	.4		5.6
S	1.6	2.1	4.8	1.0		4.8
SW	3.7	5.4	8.2	2.3		4.5
W	7.7	5.4	7.1	3.1		4.0
NW	7.6	3.0	6.3	2.8		4.0
VAR	.0	.0	.0	.0		.0
CALM	.2	.1	.3	.0		4.0
TOT OBS	266	204	371	146	987	4.4
TOT PCT	27.0	20.7	37.6	14.8	100.0	

TABLE 6

PERCENTAGE FREQUENCY OF CEILING HEIGHTS (FT, NH >4/8)  
AND OCCURRENCE OF NH <5/8 BY WIND DIRECTION

	000	150	300	600	1000	2000	3500	5000	6500	8000+	NH <5/8 ANY HGT	TOTAL OBS
	149	299	599	999	1999	3499	4999	6499	7999			
N	.0	.0	.0	.6	2.3	1.2	1.1	.4	.0	.4	10.0	
NE	.0	.0	.0	.3	.4	.6	.4	.3	.0	.2	3.7	
E	.0	.0	.1	.1	.3	.3	.4	.0	.0	.1	.9	
SE	.0	.0	.0	.2	.6	.3	.3	.1	.0	.0	.7	
S	.0	.1	.3	1.8	1.1	1.2	.3	.1	.0	.0	4.6	
SW	.0	.0	.2	2.0	2.3	2.3	1.1	.3	.0	.0	12.5	
W	.0	.0	.5	2.0	2.8	.7	1.3	.2	.1	.2	15.6	
NW	.1	.0	.3	1.4	1.8	1.0	.8	.2	.1	.2	13.6	
VAR	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
CALM	.0	.1	.0	.0	.1	.0	.0	.0	.0	.0	.4	
TOT OBS	1	1	12	67	123	74	66	17	3	10	613	987
TOT PCT	.1	.1	1.2	6.8	12.5	7.5	6.7	1.7	.3	1.0	62.1	100.0

TABLE 7

CUMULATIVE PCT FREQ OF SIMULTANEOUS OCCURRENCE  
OF CEILING HEIGHT (NH >4/8) AND VSBY (NM)

CEILING (FEET)	= OR >10	= OR >5	= OR >2	VSBY (NM) = OR >1	= OR >1/2	= OR >1/4	= OR >50YD	= OR >0
= OR >5000	1.2	1.3	1.3	1.3	1.3	1.3	1.3	1.3
= OR >4000	2.6	3.0	3.0	3.0	3.0	3.0	3.0	3.0
= OR >3500	7.6	9.3	9.6	9.6	9.6	9.6	9.6	9.6
= OR >3000	14.2	15.8	17.1	17.1	17.1	17.1	17.1	17.1
= OR >2500	23.9	29.2	29.6	29.6	29.6	29.6	29.6	29.6
= OR >2000	28.3	36.1	36.6	36.6	36.6	36.6	36.6	36.6
= OR >1500	28.7	37.0	37.6	37.7	37.8	37.8	37.8	37.8
= OR >1000	28.8	37.1	37.7	37.8	37.9	37.9	37.9	37.9
= OR >500	28.8	37.1	37.8	37.9	38.0	38.0	38.0	38.0
TOTAL	287	369	376	377	378	378	378	378

TOTAL NUMBER OF OBS: 995

PCT FREQ NH <5/8: 62.0

TABLE 7A

PERCENTAGE FREQ OF LOW CLOUDS (EIGHTHS)

0	1	2	3	4	5	6	7	8	OBSCD	TOTAL OBS
10.9	11.0	13.2	14.0	11.6	8.5	10.3	9.4	10.9	.1	1117

PERIOD: (PRIMARY) 1913-1970  
(COVER-ALL) 1878-1970

JULY

AREA 0015 AUSTRALIAN EIGHT SW  
35.6S 126.5E

TABLE 8

PERCENT FREQ OF WIND DIRECTION VS OCCURRENCE OR NON-OCCURRENCE OF  
PRECIPITATION WITH VARYING VALUES OF VISIBILITY

VISBY (NM)		N	NE	E	SE	S	SW	W	NW	VAR	CALM	PCT	TOTAL OBS
<1/2	PCP	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
	NO PCP	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
	TOT %	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
1/2<1	PCP	.1	*	.0	.0	.0	.1	.1	.1	.0	.0	.4	.4
	NO PCP	.1	.0	.0	.0	.1	.0	.1	.1	.0	.0	.4	.4
	TOT %	.2	*	.0	.0	.1	.1	.2	.2	.0	.0	.8	.8
1<2	PCP	.0	.0	.0	.0	.0	.0	.1	.0	.0	.0	.1	.1
	NO PCP	.0	.0	.0	.1	.0	.0	.0	.0	.0	.0	.1	.1
	TOT %	.0	.0	.0	.1	.0	.0	.1	.0	.0	.0	.2	.2
2<5	PCP	.2	.0	.1	.0	.0	*	*	.3	.0	.0	.6	.6
	NO PCP	.1	.0	.0	.0	*	.2	*	.1	.0	.0	.5	.5
	TOT %	.3	.0	.1	.0	*	.2	.1	.5	.0	.0	1.1	1.1
5<10	PCP	.9	.4	.3	.2	.5	1.8	3.0	1.5	.0	.0	8.6	8.6
	NO PCP	5.0	1.3	1.3	.6	2.3	4.2	6.2	5.1	.0	.0	26.0	26.0
	TOT %	5.8	1.8	1.6	.8	2.8	6.0	9.2	6.7	.0	.0	34.6	34.6
10+	PCP	.5	.2	*	.0	.2	1.5	.7	.4	.0	.0	3.5	3.5
	NO PCP	10.2	3.6	1.3	1.2	6.3	11.3	12.9	12.8	.0	.4	59.8	59.8
	TOT %	10.7	3.7	1.3	1.2	6.4	12.8	13.5	13.3	.0	.4	63.3	63.3
TOT OBS													1596
TOT PCT													100.0

TABLE 9

PERCENT FREQ OF WIND DIRECTION VS WIND SPEED  
WITH VARYING VALUES OF VISIBILITY

VISBY (NM)	SPD KTS	N	NE	E	SE	S	SW	W	NW	VAR	CALM	PCT	TOTAL OBS	
<1/2	0-3	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
	4-10	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
	11-21	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
	22+	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
	TOT %	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
1/2<1	0-3	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
	4-10	.0	.0	.0	.0	.1	.1	.1	.1	.0	.0	.3	.3	
	11-21	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
	22+	.1	*	.0	.0	.0	.0	.1	.1	.0	.0	.4	.4	
	TOT %	.1	*	.0	.0	.1	.1	.2	.2	.0	.0	.8	.8	
1<2	0-3	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
	4-10	.0	.0	.0	.1	.0	.0	.0	.0	.0	.0	.1	.1	
	11-21	.0	.0	.0	.0	.0	.0	.1	.0	.0	.0	.1	.1	
	22+	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
	TOT %	.0	.0	.0	.1	.0	.0	.1	.0	.0	.0	.2	.2	
2<5	0-3	.0	.0	.0	.0	.0	.0	.0	.0	.0	.1	.1	.1	
	4-10	.1	.0	.1	.0	.0	.0	.0	.1	.0	.0	.2	.2	
	11-21	.1	.0	.0	.0	.0	.0	*	.1	.0	.0	.2	.2	
	22+	.1	.0	.0	.0	*	.2	*	.2	.0	.0	.6	.6	
	TOT %	.2	.0	.1	.0	*	.2	.1	.4	.0	.1	1.1	1.1	
5<10	0-3	.1	.0	.2	.1	.1	*	.1	.1	.0	.0	.7	.7	
	4-10	1.1	.2	.3	.4	1.2	.9	1.2	1.4	.0	.0	6.8	6.8	
	11-21	2.4	1.0	.5	.3	.9	2.2	3.2	2.8	.0	.0	13.2	13.2	
	22+	1.9	.6	.4	.0	.4	2.5	4.1	1.8	.0	.0	11.7	11.7	
	TOT %	5.4	1.7	1.4	.7	2.6	5.7	8.6	6.2	.0	.0	32.3	32.3	
10+	0-3	.2	.3	.2	.1	.2	.1	.1	.1	.0	.4	1.6	1.6	
	4-10	2.6	1.3	.6	.8	1.9	2.3	4.5	3.7	.0	.0	17.7	17.7	
	11-21	3.0	1.9	.8	.3	2.7	6.5	6.2	7.1	.0	.0	30.4	30.4	
	22+	3.2	1.0	.1	.0	1.3	4.1	3.6	2.7	.0	.0	16.0	16.0	
	TOT %	11.0	4.5	1.6	1.2	6.2	12.9	14.4	13.5	.0	.4	65.7	65.7	
TOT OBS														1728
TOT PCT														100.0

JULY

PERIOD: (PRIMARY) 1913-1970  
(OVER-ALL) 1873-1970AREA 0015 AUSTRALIAN BIGHT SW  
35.05 126.5E

TABLE 10

PERCENT FREQUENCY OF CEILING HEIGHTS (FEET, NH >4/8) AND  
OCCURRENCE OF NH <5/8 BY HOUR

HOUR (GMT)	000 149	150 299	300 599	600 999	1000 1999	2000 3499	3500 4999	5000 6499	6500 7999	8000+	TOTAL	NH <4/8 ANY HGT	TOTAL OBS
00003	.4	.0	2.6	6.6	13.2	7.7	8.4	1.5	.4	1.1	41.8	58.2	273
06009	.0	.0	.0	7.1	15.7	7.1	7.5	2.1	.0	.4	39.9	60.1	281
12015	.0	.0	.0	4.7	11.3	6.3	3.1	2.7	.8	.4	29.3	70.7	256
18021	.0	.4	2.0	7.7	6.5	6.9	5.7	.0	.0	2.0	31.2	68.8	247
TOT	1	1	12	69	125	74	66	17	3	10	378	679	1057
PCT	.1	.1	1.1	6.5	11.6	7.0	6.2	1.6	.3	.9	35.8	64.2	100.0

TABLE 11

PERCENT FREQUENCY VSBY (NM) BY HOUR

HOUR (GMT)	<1/2	1/2<1	1<2	2<5	5<10	10+	TOTAL OBS
00003	.0	1.0	.2	1.2	35.7	61.8	482
06009	.0	1.0	.0	1.3	25.1	72.7	395
12015	.0	.6	.2	1.0	38.4	59.8	492
18021	.0	.3	.0	.8	29.2	69.7	380
TOT	0	13	2	19	571	1144	1749
PCT	.0	.7	.1	1.1	32.6	65.4	100.0

TABLE 12

CUMULATIVE PCT FREQ OF RANGES OF VSBY (NM) AND/OR  
CEILING HGT (FEET, NH >4/8) BY HOUR

HOUR (GMT)	<150 <50YD	<600 <1	<1000 <5	1000+ AND 5+	NH <5/8 AND 5+	TOTAL OBS
00003	.4	3.1	10.7	33.7	55.6	261
06009	.0	.0	8.7	34.3	57.0	265
12015	.0	.0	6.4	26.2	67.4	233
18021	.0	2.5	11.4	21.6	66.9	236
TOT	1	14	93	291	611	995
PCT	.1	1.4	9.3	29.2	61.4	100.0

TABLE 13

PERCENT FREQUENCY OF RELATIVE HUMIDITY BY TEMP

TEMP F	0-29	30-39	40-49	50-59	60-69	70-79	80-89	90-100	TOTAL OBS	PCT FREQ
65/69	.0	.0	.0	.1	.1	.1	.0	.0	3	.3
60/64	.0	.0	.0	.3	1.4	3.7	5.1	1.0	136	11.4
55/59	.0	.0	.2	1.8	7.5	21.0	22.8	7.1	717	60.4
50/54	.0	.0	.1	1.4	6.8	7.9	7.5	2.6	313	26.3
45/49	.0	.0	.0	.1	.2	.5	.5	.3	19	1.6
TOTAL	0	0	3	43	190	395	426	131	1188	100.0
PCT	.0	.0	.3	3.6	16.0	33.2	35.9	11.0		

TABLE 14

PERCENT FREQUENCY OF WIND DIRECTION BY TEMP

	N	NE	E	SE	S	SW	W	NW	VAR	CALM
65/69	.0	.1	.1	.0	.0	.0	.1	*	.0	.0
60/64	3.8	.9	.1	.0	.1	.2	2.2	4.2	.0	.0
55/59	11.5	3.9	1.3	.3	1.6	9.0	16.7	16.0	.0	.1
50/54	1.2	.3	1.1	1.6	6.4	9.2	5.4	1.1	.0	.2
45/49	.0	.0	.0	.1	.7	.6	.3	.0	.0	.0
TOTAL	16.5	5.2	2.5	2.0	8.7	18.9	24.6	21.3	.0	.3

TABLE 15

MEANS, EXTREMES AND PERCENTILES OF TEMP (DEG F) BY HOUR

HOUR (GMT)	MAX	99%	95%	50%	5%	1%	MIN	MEAN	TOTAL OBS
00003	65	63	61	57	51	49	46	56.4	626
06009	70	64	61	57	52	50	47	57.1	434
12015	65	62	60	56	51	49	47	55.9	586
18021	63	61	60	55	50	48	46	55.4	476
TOT	70	63	61	56	51	49	46	56.2	2072

TABLE 16

PERCENT FREQUENCY OF RELATIVE HUMIDITY BY HOUR

HOUR (GMT)	0-29	30-39	60-69	70-79	80-89	90-100	MEAN	TOTAL OBS
00003	.0	4.7	16.5	27.8	42.1	8.9	78	316
06009	.0	5.2	17.9	37.1	28.5	11.3	77	291
12015	.0	3.8	13.4	32.9	36.1	13.7	79	313
18021	.0	2.1	17.4	35.2	35.2	10.0	78	281
TOT	0	48	195	398	428	132	78	1201

JULY

PERIOD: (PRIMARY) 1913-1970  
(OVER-ALL) 1878-1970AREA 0015 AUSTRALIAN BIGHT SW  
35.65 126.5E

TABLE 17

PCT FRQ OF AIR TEMPERATURE (DEG F) AND THE OCCURRENCE OF FOG (WITHOUT PRECIPITATION)  
VS AIR-SEA TEMPERATURE DIFFERENCE (DEG F)

AIR-SEA TMP DIF	45 48	49 52	53 56	57 60	61 64	65 68	69 72	TOT	N FOG	WD FOG
9/10	.0	.0	.0	.0	.1	.0	.1	2	.0	.1
7/8	.0	.0	.0	.1	.0	.1	.0	2	.0	.1
6	.0	.0	.0	.1	.2	.1	.0	6	.0	.4
5	.0	.0	.1	.1	.0	.0	.0	10	.0	.7
4	.0	.0	.1	1.6	.0	.0	.0	31	.0	2.3
3	.0	.1	.4	1.7	1.3	.0	.0	47	.0	3.5
2	.0	.0	.1	4.3	.9	.0	.0	71	.1	5.1
1	.0	.1	1.1	7.7	1.2	.0	.0	139	.2	10.0
0	.0	.1	2.6	11.8	.9	.0	.0	208	.3	15.0
-1	.0	.1	6.2	7.8	.4	.0	.0	198	.3	14.3
-2	.0	.2	7.3	4.3	.1	.0	.0	161	.1	11.8
-3	.0	1.2	8.7	1.5	.0	.0	.0	156	.3	11.2
-4	.0	.7	6.5	.9	.0	.0	.0	110	.2	7.9
-5	.0	1.4	4.5	.5	.0	.0	.0	87	.0	6.4
-6	.0	2.2	2.3	.2	.0	.0	.0	64	.0	4.7
-7/-8	.1	1.8	1.1	.1	.0	.0	.0	42	.0	3.1
-9/-10	.1	.9	.5	.0	.0	.0	.0	21	.0	1.5
-11/-13	.1	.2	.1	.0	.0	.0	.0	6	.0	.4
TOTAL	5	564	83	1	1	1	1	1361	20	1341
PCT	.4	9.1	41.4	42.5	6.2	.2	.1	100.0	1.5	98.5

PERIOD: (OVER-ALL) 1963-1970

TABLE 18

PCT FRQ OF WIND SPEED (KTS) AND DIRECTION VERSUS SEA HEIGHTS (FT)

HGT	1-3	4-10	11-21	22-33	34-47	48+	PCT	NE	1-3	4-10	11-21	22-33	34-47	48+	PCT
<1	.0	.5	.0	.0	.0	.0	.5	.0	.2	.0	.0	.0	.0	.0	.2
1-2	.0	1.7	.1	.0	.0	.0	1.8	.0	.7	.0	.0	.0	.0	.0	.7
3-4	.0	1.3	3.4	.0	.0	.0	4.6	.0	.3	.9	.0	.0	.0	.0	1.1
5-6	.0	.3	1.8	1.2	.0	.0	3.3	.0	.2	.9	.5	.0	.0	.0	1.6
7	.0	.2	1.5	2.2	.1	.0	4.1	.0	.2	.3	.8	.0	.0	.0	1.3
8-9	.0	.0	.2	.7	.1	.0	1.0	.0	.0	.0	.4	.0	.0	.0	.4
10-11	.0	.0	.3	1.5	.4	.0	2.1	.0	.0	.2	.2	.0	.0	.0	.5
12	.0	.0	.0	.3	.4	.0	.7	.0	.0	.0	.0	.0	.0	.0	.0
13-16	.0	.0	.0	.2	.2	.0	.4	.0	.0	.0	.2	.0	.0	.0	.2
17-19	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
20-22	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
23-25	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
26-32	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
33-40	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
41-48	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
49-60	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
61-70	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
71-86	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
87+	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
TOT PCT	.0	4.0	7.3	6.1	1.2	.0	18.6	.0	1.6	2.2	2.1	.1	.0	.0	6.0

HGT	1-3	4-10	11-21	22-33	34-47	48+	PCT	SE	1-3	4-10	11-21	22-33	34-47	48+	PCT
<1	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
1-2	.0	.0	.0	.0	.0	.0	.0	.0	.2	.0	.0	.0	.0	.0	.2
3-4	.0	.1	.0	.0	.0	.0	.1	.0	.2	.4	.0	.0	.0	.0	.6
5-6	.0	.0	.5	.0	.0	.0	.5	.0	.0	.2	.0	.0	.0	.0	.2
7	.0	.0	.1	.0	.0	.0	.1	.0	.0	.0	.0	.0	.0	.0	.0
8-9	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
10-11	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
12	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
13-16	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
17-19	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
20-22	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
23-25	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
26-32	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
33-40	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
41-48	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
49-60	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
61-70	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
71-86	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
87+	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
TOT PCT	.0	.1	.7	.0	.0	.0	.8	.0	.4	.6	.0	.0	.0	.0	1.0

PERIOD: (OVER-ALL) 1963-1970

JULY

AREA 0015 AUSTRALIAN BIGHT SW  
35.05 126.5E

TABLE 18 (CONT)

PCT FREQ OF WIND SPEED (KTS) AND DIRECTION VERSUS SEA HEIGHTS (FT)

HGT	S							PCT	SW							PCT
	1-3	4-10	11-21	22-33	34-47	48+			1-3	4-10	11-21	22-33	34-47	48+		
<1	.0	.3	.0	.0	.0	.0	.3	.0	.5	.0	.0	.0	.0	.0	.0	.5
1-2	.0	.9	.2	.0	.0	.0	1.1	.0	1.8	.4	.0	.0	.0	.0	.0	2.1
3-4	.0	.5	.7	.1	.0	.0	1.3	.0	.8	2.9	.3	.0	.0	.0	.0	4.0
5-6	.0	.0	1.1	.2	.0	.0	1.3	.0	.1	3.9	1.0	.2	.0	.0	.0	5.2
7	.0	.0	.5	.9	.0	.0	1.4	.0	.4	2.3	1.9	.2	.0	.0	.0	4.8
8-9	.0	.0	.1	.3	.0	.0	.5	.0	.0	.1	.3	.0	.0	.0	.0	.5
10-11	.0	.0	.0	.4	.1	.0	.5	.0	.0	.2	.4	.0	.0	.0	.0	.6
12	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.6	.4	.0	.0	.0	.9
13-16	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.5	.2	.0	.0	.0	.7
17-19	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
20-22	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
23-25	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
26-32	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
33-40	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
41-48	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
49-60	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
61-70	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
71-86	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
87+	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
TOT PCT	.0	1.8	2.7	1.9	.1	.0	6.5	.0	3.5	9.8	5.0	1.0	.0	.0	19.4	

HGT	W							PCT	NW							PCT	TOTAL PCT
	1-3	4-10	11-21	22-33	34-47	48+			1-3	4-10	11-21	22-33	34-47	48+			
<1	.0	.3	.0	.0	.0	.0	.3	.0	.6	.0	.0	.0	.0	.0	.0	.6	
1-2	.2	2.5	.5	.0	.0	.0	3.2	.2	3.1	2.0	.0	.0	.0	.0	.0	5.3	
3-4	.0	2.3	3.4	.5	.0	.0	6.1	.0	1.4	2.8	.4	.0	.0	.0	.0	4.6	
5-6	.0	.6	4.1	1.6	.0	.0	6.3	.0	.6	2.7	.8	.0	.0	.0	.0	4.1	
7	.0	.0	2.4	1.3	.0	.0	3.7	.0	.0	1.4	1.6	.5	.0	.0	.0	3.6	
8-9	.0	.0	.3	1.4	.5	.0	2.2	.0	.2	.2	.5	.2	.0	.0	.0	1.0	
10-11	.0	.0	.0	.4	.2	.0	.6	.0	.0	.0	.6	.2	.0	.0	.0	.8	
12	.0	.0	.0	.0	.3	.0	.3	.0	.0	.0	.2	.3	.0	.0	.0	.5	
13-16	.0	.0	.0	.9	.3	.0	1.3	.0	.0	.0	.3	.4	.2	.0	.0	.9	
17-19	.0	.0	.0	.1	.1	.0	.3	.0	.0	.0	.0	.0	.0	.0	.0	.0	
20-22	.0	.0	.0	.2	.6	.0	.8	.0	.0	.0	.0	.0	.0	.0	.0	.0	
23-25	.0	.0	.0	.0	.6	.0	.6	.0	.0	.0	.0	.2	.0	.0	.0	.2	
26-32	.0	.0	.0	.0	.2	.0	.2	.0	.0	.0	.0	.0	.0	.0	.0	.0	
33-40	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
41-48	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
49-60	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
61-70	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
71-86	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
87+	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
TOT PCT	.2	5.6	10.7	6.5	2.8	.0	25.8	.2	5.9	9.1	4.6	1.7	.2	.2	21.6	99.8	

WIND SPEED (KTS) VS SEA HEIGHT (FT)

HGT	0-3	4-10	11-21	22-33	34-47	48+	PCT	TOT OBS
<1	.4	2.5	.0	.0	.0	.0	2.8	
1-2	.4	10.8	3.2	.0	.0	.0	14.4	
3-4	.0	5.8	14.4	1.3	.0	.0	22.5	
5-6	.0	1.9	15.2	5.3	.2	.0	22.5	
7	.0	.8	8.5	8.7	.9	.0	18.9	
8-9	.0	.2	.9	3.6	.9	.0	5.7	
10-11	.0	.0	.8	3.4	.9	.0	5.1	
12	.0	.0	.0	1.1	1.3	.0	2.5	
13-16	.0	.0	.0	2.1	1.1	.2	3.4	
17-19	.0	.0	.0	.2	.2	.0	.4	
20-22	.0	.0	.0	.2	.6	.0	.8	
23-25	.0	.0	.0	.2	.6	.0	.8	
26-32	.0	.0	.0	.0	.2	.0	.2	
33-40	.0	.0	.0	.0	.0	.0	.0	
41-48	.0	.0	.0	.0	.0	.0	.0	
49-60	.0	.0	.0	.0	.0	.0	.0	
61-70	.0	.0	.0	.0	.0	.0	.0	
71-86	.0	.0	.0	.0	.0	.0	.0	
87+	.0	.0	.0	.0	.0	.0	.0	
TOT PCT	.8	22.9	43.0	26.1	7.0	.2	100.0	528

PERIOD: (OVER-ALL) 1949-1970

TABLE 19

PERCENT FREQUENCY OF WAVE HEIGHT (FT) VS WAVE PERIOD (SECONDS)

PERIOD (SEC)	<1	1-2	3-4	5-6	7	8-9	10-11	12	13-16	17-19	20-22	23-25	26-32	33-40	41-48	49-60	61-70	71-86	87+	TOTAL	MEAN HGT
<6	.3	1.9	1.6	2.0	2.0	.8	1.1	.5	.3	.1	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	84
6-7	.0	.0	1.6	4.0	5.2	3.6	2.9	.9	1.0	.0	.1	.0	.0	.0	.0	.0	.0	.0	.0	.0	154
8-9	.0	.0	.1	3.3	8.6	4.9	4.3	2.6	3.4	.8	.3	.6	.3	.0	.0	.0	.0	.0	.0	.0	231
10-11	.0	.0	.1	.3	2.1	3.3	4.0	2.1	1.8	.6	.4	.4	.0	.0	.0	.0	.0	.0	.0	.0	123
12-13	.0	.0	.3	.1	.5	1.6	1.4	.8	2.4	.3	.5	.4	.3	.1	.0	.1	.0	.0	.0	.0	69
>13	.0	.0	.0	.1	.1	.5	.8	.1	1.8	1.1	.4	.1	.0	.0	.0	.0	.0	.0	.0	.0	40
INDET	.4	.5	2.5	1.5	1.5	2.1	.9	.8	1.3	.1	.0	.0	.0	.0	.3	.0	.0	.0	.0	.0	94
TOTAL	5	19	50	90	159	134	122	62	94	24	13	12	7	1	2	1	0	0	0	0	795
PCT	.6	2.4	6.3	11.3	20.0	16.9	15.3	7.8	11.8	3.0	1.6	1.5	.9	.1	.3	.1	.0	.0	.0	.0	100.0



## AUGUST

PERIOD: (PRIMARY) 1913-1970  
(OVER-ALL) 1859-1970

AREA 0015 AUSTRALIAN BIGHT SW  
35.55 126.5E

TABLE 1

## PERCENT FREQUENCY OF WEATHER OCCURRENCE BY WIND DIRECTION

WIND DIR	PRECIPITATION TYPE							OTHER WEATHER PHENOMENA							
	RAIN	RAIN SHWR	DRZL	FRZG PCPN	SNOW	OTHER FRZN PCPN	HAIL	PCPN AT OB TIME	PCPN PAST HOUR	THOR LTNG	FOG	FOG WD PCPN	SMOKE HAZE	SPRAY BLWG DUST	NO SIG WEA
N	3.0	1.8	2.8	.0	.0	.0	.0	7.3	1.6	1.4	.8	.0	.2	.4	88.6
NE	7.3	2.2	.2	.0	.0	.0	.0	9.5	2.9	.0	.0	.9	.0	.0	86.8
E	6.1	6.1	.0	.0	.0	.0	.0	12.1	.0	.0	.0	.0	.0	.0	87.9
SE	2.3	2.3	2.3	.0	.0	.0	.0	6.8	5.6	.0	2.3	.0	.0	.0	85.3
S	3.1	9.4	1.7	.0	.0	.0	.0	14.3	3.8	.5	.6	.0	.0	.0	80.8
SW	2.4	11.9	1.0	.0	.0	.0	.0	15.4	5.4	.4	.3	.0	.0	.0	78.5
W	3.4	9.4	.7	.0	.0	.0	.3	13.8	5.1	1.1	.0	.0	.0	.0	80.1
NW	2.8	7.8	1.6	.0	.0	.0	.0	12.2	2.5	3.4	1.2	.0	.2	.0	80.9
VAR	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
CALM	9.1	.0	.0	.0	.0	.0	.0	9.1	.0	.0	.0	.0	.0	.0	90.9
TOT PCT	3.4	7.5	1.3	.0	.0	.0	.1	12.3	3.7	1.1	.5	.1	.1	.1	82.3
TOT OBS:	1566														

TABLE 2

## PERCENT FREQUENCY OF WEATHER OCCURRENCE BY HOUR

HOUR (GMT)	PRECIPITATION TYPE							OTHER WEATHER PHENOMENA							
	RAIN	RAIN SHWR	DRZL	FRZG PCPN	SNOW	OTHER FRZN PCPN	HAIL	PCPN AT OB TIME	PCPN PAST HOUR	THOR LTNG	FOG	FOG WD PCPN	SMOKE HAZE	SPRAY BLWG DUST	NO SIG WEA
00003	3.7	6.9	2.1	.0	.0	.0	.0	12.7	2.8	.2	.7	.2	.0	.0	83.4
06009	3.2	7.5	1.1	.0	.0	.0	.0	11.5	4.3	.0	.8	.0	.3	.3	82.8
12015	3.2	9.0	1.1	.0	.0	.0	.0	13.3	2.7	2.3	.7	.0	.0	.0	81.4
18021	3.1	7.0	1.1	.0	.0	.0	.3	11.5	5.6	2.0	.3	.0	.0	.0	80.7
TOT PCT	3.3	7.7	1.4	.0	.0	.0	.1	12.3	3.7	1.1	.6	.1	.1	.1	82.1
TOT OBS:	1605														

TABLE 3

## PERCENTAGE FREQUENCY OF WIND DIRECTION BY SPEED AND BY HOUR

WIND DIR	WIND SPEED (KNOTS)							TOTAL OBS	PCT FREQ	MEAN SPD	HOUR (GMT)							
	0-3	4-10	11-21	22-33	34-47	48+					00	03	06	09	12	15	18	21
N	.6	4.7	7.4	2.7	.2	.0		15.6	14.6		17.2	16.3	15.1	13.8	11.5	15.3	19.3	17.0
NE	.1	3.0	2.2	1.4	.2	.0		6.9	14.5		5.9	8.7	7.8	7.8	7.2	6.1	6.2	4.4
E	.3	1.5	.8	.3	.1	.0		3.0	11.2		2.8	4.6	2.2	2.6	3.1	2.9	2.8	2.8
SE	.4	1.6	1.1	.2	.0	.0		3.3	9.8		3.4	4.1	3.4	3.0	3.8	2.6	2.7	1.5
S	.5	3.2	3.5	1.7	.4	*		9.3	14.7		9.5	8.2	10.0	8.2	9.2	9.1	10.6	7.2
SW	.6	5.4	7.1	6.0	1.7	.1		20.9	18.4		21.9	18.1	21.9	25.4	21.8	20.3	19.2	17.0
W	.6	5.7	9.9	5.6	1.2	.0		23.0	17.1		21.6	21.7	22.8	23.3	25.4	21.5	22.1	25.8
NW	.4	4.2	9.5	2.7	.1	.0		17.0	14.9		17.7	17.9	15.8	15.9	15.9	21.1	14.8	22.2
VAR	.0	.0	.0	.0	.0	.0		.0	.0		.0	.0	.0	.0	.0	.0	.0	.0
CALM	1.1							1.1	.1		1.0	.4	.9	.0	2.1	1.2	2.2	1.3
TOT OBS	98	620	877	434	82	3	2114	15.6			415	232	336	116	433	165	320	97
TOT PCT	4.6	29.3	41.5	20.5	3.9	.1		100.0			100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0

TABLE 3A

WIND DIR	WIND SPEED (KNOTS)					TOTAL OBS	PCT FREQ	MEAN SPD	HOUR (GMT)			
	0-6	7-16	17-27	28-40	41+				00	06	12	18
N	2.6	6.6	5.4	1.0	.0		15.6	14.6	16.9	14.8	12.6	18.8
NE	1.1	3.5	1.3	.9	.0		6.9	14.5	6.9	7.8	6.9	5.8
E	1.0	1.4	.3	.2	.0		3.0	11.2	3.5	2.3	3.0	2.8
SE	1.1	1.8	.2	.2	.0		3.3	9.8	3.6	3.3	3.4	2.5
S	1.6	4.4	2.3	.9	.1		9.3	14.7	9.0	9.5	9.2	9.8
SW	2.6	7.0	6.8	4.0	.5		20.9	18.4	20.5	22.8	21.4	18.7
W	2.5	9.3	7.6	3.5	.1		23.0	17.1	21.6	23.0	24.3	23.2
NW	1.4	9.0	5.7	.8	.0		17.0	14.9	17.8	15.9	17.3	16.5
VAR	.0	.0	.0	.0	.0		.0	.0	.0	.0	.0	.0
CALM	1.1						1.1	.1	.2	.7	1.8	1.9
TOT OBS	319	907	628	245	15	2114	15.6		647	452	598	417
TOT PCT	15.1	42.9	29.7	11.6	.7		100.0		100.0	100.0	100.0	100.0

PERIOD: (PRIMARY) 1913-1970  
(OVER-ALL) 1859-1970

AUGUST

AREA 0015 AUSTRALIAN BIGHT SW  
35.55 126.5E

TABLE 4

PERCENTAGE FREQUENCY OF WIND SPEED BY HOUR (GMT)

HOUR	CALM	1-3	4-10	WIND SPEED (KNOTS)			48+	MEAN	PCT FREQ	TOTAL OBS
				11-21	22-33	34-47				
00003	.2	4.3	28.4	41.1	21.6	4.2	.2	15.9	100.0	647
06009	.7	3.5	28.1	40.0	27.3	5.1	.2	16.3	100.0	452
12015	1.8	3.7	28.8	42.1	19.9	3.5	.2	15.3	100.0	598
18021	1.9	2.2	32.9	42.7	17.7	2.6	.0	14.8	100.0	417
TOT	23	75	620	877	434	82	3	15.6		2114
PCT	1.1	3.5	29.3	41.5	20.5	3.9	.1		100.0	

TABLE 5

PCT FREQ OF TOTAL CLOUD AMOUNT (EIGHTHS)  
BY WIND DIRECTION

WIND DIR	0-2	3-4	5-7	8 & DBSCD	TOTAL OBS	MEAN CLOUD COVER
N	4.9	2.0	5.3	3.4		4.5
NE	1.1	.6	3.0	2.6		5.8
E	.6	.7	1.0	1.0		5.1
SE	.3	.7	1.9	.4		5.6
S	.7	2.7	4.8	2.0		5.4
SW	3.7	7.7	7.9	2.8		4.5
W	6.5	4.8	7.8	3.0		4.3
NW	4.1	4.3	4.7	2.3		4.2
VAR	.0	.0	.0	.0		.0
CALM	.4	.3	.1	.2		4.1
TOT OBS	225	239	367	178	1000	4.6
TOT PCT	22.4	23.8	36.5	17.4	100.0	

TABLE 6

PERCENTAGE FREQUENCY OF CEILING HEIGHTS (FT, NH >4/8)  
AND OCCURRENCE OF NH <5/8 BY WIND DIRECTION

	000	150	300	600	1000	2000	3500	5000	6500	8000+	NH <5/8 ANY HGT	TOTAL OBS
	149	299	599	999	1999	3499	4999	6499	7999			
N	.0	.1	.0	.9	1.7	1.4	1.1	.*	.0	.7	9.7	
NE	.1	.0	.0	.7	1.5	.9	.4	.0	.0	.2	3.6	
E	.0	.0	.0	.1	.8	.5	.2	.0	.2	.0	1.4	
SE	.0	.0	.0	.9	.4	.6	.0	.*	.0	.0	1.4	
S	.0	.0	.1	1.3	2.1	.9	.8	.3	.0	.0	4.6	
SW	.0	.1	.2	.9	3.4	1.8	2.1	.3	.0	.0	12.9	
W	.0	.3	2.0	2.2	1.5	1.5	.3	.0	.1	.1	14.1	
NW	.0	.0	.0	.9	2.1	.5	.8	.3	.1	.1	10.6	
VAR	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
CALM	.0	.0	.0	.0	.2	.0	.0	.0	.0	.0	.8	
TOT OBS	1	2	6	78	145	82	71	13	3	11	594	1006
TOT PCT	.1	.2	.6	7.8	14.4	8.2	7.1	1.3	.3	1.1	59.0	100.0

TABLE 7

CUMULATIVE PCT FREQ OF SIMULTANEOUS OCCURRENCE  
OF CEILING HEIGHT (NH >4/8) AND VSBY (NM)

CEILING (FEET)	VSBY (NM)							
	OR >10	OR >5	OR >2	OR >1	OR >1/2	OR >1/4	OR >50YD	OR >0
OR >6500	1.2	1.4	1.4	1.4	1.4	1.4	1.4	1.4
OR >5000	2.4	2.6	2.6	2.6	2.6	2.6	2.6	2.6
OR >3500	8.8	9.6	9.6	9.6	9.6	9.6	9.6	9.6
OR >2000	15.2	17.5	17.7	17.7	17.7	17.7	17.7	17.7
OR >1000	27.2	32.0	32.5	32.5	32.5	32.5	32.5	32.5
OR >600	31.8	39.1	40.0	40.0	40.1	40.1	40.1	40.1
OR >300	32.0	39.7	40.5	40.5	40.6	40.6	40.6	40.6
OR >150	32.1	39.8	40.6	40.6	40.8	40.8	40.8	40.8
OR >0	32.1	39.9	40.7	40.7	40.9	40.9	40.9	40.9
TOTAL	329	409	418	418	420	420	420	420

TOTAL NUMBER OF OBS: 1026

PCT FREQ NH <5/8: 59.1

TABLE 7A

PERCENTAGE FREQ OF LOW CLOUDS (EIGHTHS)

	0	1	2	3	4	5	6	7	8	DBSCD	TOTAL OBS
	10.2	10.9	11.3	12.9	12.5	9.3	8.4	10.4	14.0	.0	1116

PERIOD: (PRIMARY) 1913-1970  
(OVER-ALL) 1859-1970

AUGUST

AREA 0015 AUSTRALIAN BIGHT SW  
35.55 126.5E

TABLE 8

PERCENT FREQ OF WIND DIRECTION VS OCCURRENCE OR NON-OCCURRENCE OF  
PRECIPITATION WITH VARYING VALUES OF VISIBILITY

VSBY (NM)		N	NE	E	SE	S	SW	W	NW	VAR	CALM	PCT	TOTAL OBS
<1/2	PCP	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
	NO PCP	.0	.0	.0	.1	.1	.0	.0	.0	.0	.0	.1	
	TOT %	.0	.0	.0	.1	.1	.0	.0	.0	.0	.0	.1	
1/2<1	PCP	.1	.0	.0	.0	.0	.0	.0	.0	.0	.0	.1	
	NO PCP	.1	.1	.0	.0	.0	.0	.0	.2	.0	.0	.4	
	TOT %	.2	.1	.0	.0	.0	.0	.0	.2	.0	.0	.4	
1<2	PCP	.0	.1	.0	.0	.0	.0	.0	.0	.0	.0	.1	
	NO PCP	*	.0	.0	.0	*	*	.0	*	.0	.0	.1	
	TOT %	*	.1	.0	.0	*	*	.0	*	.0	.0	.2	
2<5	PCP	.1	.1	.1	.1	.0	.1	.1	.1	.0	.0	.5	
	NO PCP	.0	.0	.0	.0	.0	.2	*	*	.0	.0	.2	
	TOT %	.1	.1	.1	.1	.0	.1	.3	.1	.0	.0	.7	
5<10	PCP	.8	.5	.2	.0	.9	2.3	2.1	1.6	.0	.0	8.4	
	NO PCP	4.9	1.9	.8	.4	2.5	4.7	6.1	4.4	.0	.0	25.7	
	TOT %	5.7	2.3	.9	.4	3.4	7.0	8.3	6.1	.0	.0	34.0	
10+	PCP	.3	.1	.2	.1	.5	.9	.8	.3	.0	.1	3.3	
	NO PCP	10.1	4.6	2.0	2.2	6.1	13.0	9.6	.0	.6	.6	61.2	
	TOT %	10.3	4.7	2.2	2.3	6.6	13.9	13.8	9.9	.6	.7	64.5	
TOT OBS 1566													
TOT PCT		16.3	7.3	3.2	2.8	10.2	21.0	22.3	16.3	.0	.7	100.0	

TABLE 9

PERCENT FREQ OF WIND DIRECTION VS WIND SPEED  
WITH VARYING VALUES OF VISIBILITY

VSBY (NM)	SPD KTS	N	NE	E	SE	S	SW	W	NW	VAR	CALM	PCT	TOTAL OBS
<1/2	0-3	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
	4-10	.0	.0	.0	.1	.1	.0	.0	.0	.0	.0	.1	
	11-21	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
	22+	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
	TOT %	.0	.0	.0	.1	.1	.0	.0	.0	.0	.0	.1	
1/2<1	0-3	.1	.0	.0	.0	.0	.0	.0	.0	.0	.0	.1	
	4-10	*	.1	.0	.0	.0	.0	.0	.1	.0	.0	.2	
	11-21	.1	.0	.0	.0	.0	.0	.0	.0	.0	.0	.1	
	22+	*	.0	.0	.0	.0	.0	.0	*	.0	.0	.1	
	TOT %	.2	.1	.0	.0	.0	.0	.0	.2	.0	.0	.4	
1<2	0-3	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
	4-10	.0	.0	.0	.0	*	*	.0	.0	.0	.0	.1	
	11-21	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
	22+	*	.1	.0	.0	*	*	.0	*	.0	.0	.1	
	TOT %	*	.1	.0	.0	*	*	.0	*	.0	.0	.2	
2<5	0-3	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
	4-10	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
	11-21	.1	.0	.1	.1	.0	.1	.2	.0	.0	.0	.5	
	22+	.0	.1	.0	.0	.0	*	.1	.1	.0	.0	.3	
	TOT %	.1	.1	.1	.1	.0	.2	.3	.1	.0	.0	.8	
5<10	0-3	.1	.0	.1	.0	.1	.1	.1	.1	.0	.0	.5	
	4-10	1.7	.9	.5	.3	.7	.7	1.4	1.8	.0	.0	8.1	
	11-21	2.2	.6	.2	*	1.4	2.6	2.9	3.0	.0	.0	12.9	
	22+	1.5	.7	.1	.0	1.1	3.3	3.6	.9	.0	.0	11.1	
	TOT %	5.5	2.2	.9	.3	3.3	6.7	8.0	5.8	.0	.0	32.7	
10+	0-3	.2	.1	.2	.3	.4	.6	.5	.2	.0	.8	3.5	
	4-10	3.4	2.0	1.2	1.2	2.5	4.9	4.4	2.1	.0	.0	21.7	
	11-21	5.6	1.8	.6	.8	2.4	4.4	6.9	6.3	.0	.0	28.8	
	22+	1.5	.9	.1	*	1.0	4.3	2.7	1.3	.0	.0	11.9	
	TOT %	10.8	4.8	2.1	2.3	6.4	14.2	14.5	10.0	.0	.8	65.8	
TOT OBS 1669													
TOT PCT		16.5	7.2	3.1	2.8	9.7	21.1	22.8	16.0	.0	.8	100.0	

## AUGUST

PERIOD: (PRIMARY) 1913-1970  
(OVER-ALL) 1859-1970

AREA 0015 AUSTRALIAN BIGHT SW  
35.55 126.5E

TABLE 10

PERCENT FREQUENCY OF CEILING HEIGHTS (FEET, NH >4/8) AND  
OCCURRENCE OF NH <5/8 BY HOUR

HOURL (GMT)	000 149	150 299	300 599	600 999	1000 1999	2000 3499	3500 4999	5000 6499	6500 7999	8000+	TOTAL	NH <5/8 ANY HGT	TOTAL OBS
00003	.4	.0	.0	7.9	15.9	7.2	8.3	1.8	.0	1.8	43.3	56.7	277
06009	.0	.3	1.0	8.4	15.2	8.4	7.4	1.7	.7	.7	43.8	56.2	297
12015	.0	.4	.4	7.6	11.6	6.4	4.4	1.2	.0	.4	32.4	67.6	250
18021	.0	.0	.8	5.0	13.6	9.5	6.2	.0	.4	1.2	36.8	63.2	242
TOT	1	2	6	78	151	84	71	13	3	11	420	646	1066
PCT	.1	.2	.6	7.3	14.2	7.9	6.7	1.2	.3	1.0	39.4	60.6	100.0

TABLE 11

PERCENT FREQUENCY VSBY (NM) BY HOUR

HOURL (GMT)	<1/2	1/2<1	1<2	2<5	5<10	10+	TOTAL OBS
00003	.2	.4	.2	1.3	35.6	62.2	463
06009	.0	.8	.3	1.3	25.1	72.6	391
12015	.2	.4	.0	.4	40.2	58.8	480
18021	.0	.0	.3	.3	28.9	70.6	374
TOT	2	7	3	14	564	1118	1708
PCT	.1	.4	.2	.8	33.0	65.5	100.0

TABLE 12

CUMULATIVE PCT FREQ OF RANGES OF VSBY (NM) AND/OR  
CEILING HGT (FEET, NH >4/8), BY HOUR

HOURL (GMT)	<150 <50YD	<600 <1	<1000 <5	1000+ AND 5+	NH <5/8 AND 5+	TOTAL OBS
00003	.4	1.1	9.3	35.6	55.2	270
06009	.0	1.4	11.1	34.1	54.7	287
12015	.0	.8	9.3	24.9	65.8	237
18021	.0	.9	6.5	32.3	61.2	232
TOT	1	11	94	328	604	1026
PCT	.1	1.1	9.2	32.0	58.9	100.0

TABLE 13

PERCENT FREQUENCY OF RELATIVE HUMIDITY BY TEMP

TEMP F	0-29	30-39	40-49	50-59	60-69	70-79	80-89	90-100	TOTAL OBS	PCT FREQ
65/69	.0	.0	.0	.0	.0	.1	.0	.0	1	.1
60/64	.0	.0	.1	.1	.9	2.9	1.9	.9	85	6.7
55/59	.0	.0	.1	1.2	5.4	17.8	23.6	8.7	723	56.8
50/54	.0	.0	.2	2.8	10.1	9.5	9.8	1.7	435	34.2
45/49	.0	.0	.0	.0	.2	1.3	.5	.2	27	2.1
40/44	.0	.0	.0	.0	.0	.0	.0	.1	1	.1
TOTAL	0	0	4	52	212	401	456	147	1272	100.0
PCT	.0	.0	.3	4.1	16.7	31.5	35.8	11.6		

TABLE 14

PERCENT FREQUENCY OF WIND DIRECTION BY TEMP

N	NE	E	SE	S	SW	W	NW	VAR	C&M
.0	.0	.0	.0	.0	.1	.0	.0	.0	.0
2.1	.7	.1	.0	.2	.1	1.1	2.4	.0	.1
12.1	5.6	1.5	1.1	2.7	7.2	13.9	12.6	.0	.2
1.4	1.2	1.1	2.0	6.4	13.0	7.2	1.5	.0	.4
.0	.0	.0	.1	.5	1.3	.3	.0	.0	.0
.0	.0	.0	.0	.0	.1	.0	.0	.0	.0
15.6	7.6	2.6	3.2	9.7	21.7	22.4	16.5	.0	.7

TABLE 15

MEANS, EXTREMES AND PERCENTILES OF TEMP (DEG F) BY HOUR

HOURL (GMT)	MAX	99%	95%	50%	5%	1%	MIN	MEAN	TOTAL OBS
00003	70	63	61	56	51	49	47	55.0	639
06009	67	64	62	56	51	49	47	55.4	443
12015	64	61	59	55	50	48	43	55.1	597
18021	63	61	59	55	50	48	46	54.9	426
TOT	70	63	60	56	51	48	43	55.6	2105

TABLE 16

PERCENT FREQUENCY OF RELATIVE HUMIDITY BY HOUR

HOURL (GMT)	0-29	30-59	60-69	70-79	80-89	90-100	MEAN	TOTAL OBS
00003	.0	7.8	15.1	30.8	34.6	11.6	77	344
06009	.0	4.5	20.1	35.1	31.0	9.3	77	313
12015	.0	2.9	16.6	30.7	37.0	12.9	79	349
18021	.0	3.0	13.5	29.7	41.6	12.2	80	296
TOT	0	60	213	411	468	150	78	1302

## AUGUST

PERIOD: (PRIMARY) 1913-1970  
(OVER-ALL) 1859-1970

TABLE 17

AREA 0015 AUSTRALIAN RIGHT SH  
35.5S 126.5E

PCT FREQ OF AIR TEMPERATURE (DEG F) AND THE OCCURRENCE OF FOG (WITHOUT PRECIPITATION)  
VS AIR-SEA TEMPERATURE DIFFERENCE (DEG F)

AIR-SEA TMP DIF	41 44	45 48	49 52	53 56	57 60	61 64	65 68	TOT	H FOG	WD FOG
9/10	.0	.0	.0	.0	.0	.0	.1	1	.0	.1
7/8	.0	.0	.0	.0	.1	.1	.0	3	.0	.2
6	.0	.0	.0	.1	.0	.4	.0	6	.0	.4
5	.0	.0	.0	.0	.3	.2	.0	7	.0	.5
4	.0	.0	.0	.0	.9	.4	.0	18	.0	1.3
3	.0	.0	.0	.3	2.2	.8	.0	44	.1	3.2
2	.0	.0	.0	.6	5.6	.6	.0	91	.1	6.6
1	.0	.0	.0	2.2	9.5	.3	.0	161	.0	12.0
0	.0	.0	.1	5.9	8.0	.1	.0	191	.1	14.1
-1	.0	.0	.1	8.9	4.9	.1	.0	189	.2	13.8
-2	.0	.0	.4	9.4	1.7	.0	.0	155	.1	11.4
-3	.0	.1	2.0	7.5	1.1	.0	.0	144	.0	10.7
-4	.0	.0	2.2	5.4	.7	.0	.0	112	.0	8.3
-5	.0	.1	2.8	4.2	.2	.0	.0	98	.0	7.3
-6	.0	.1	2.4	1.1	.1	.0	.0	50	.0	3.7
-7/-8	.0	.3	2.6	1.0	.1	.0	.0	55	.1	.8
-9/-10	.0	.2	.3	.2	.1	.0	.0	11	.0	.4
-11/-13	.0	.1	.2	.1	.0	.0	.0	6	.0	.4
-14/-16	.1	.0	.1	.1	.0	.0	.0	3	.0	.2
TOTAL	1	12	178	634	42	1	1345	100.0	.7	99.3
PCT	.1	.9	13.2	47.1	35.5	3.1	.1			

PERIOD: (OVER-ALL) 1963-1970

TABLE 18

PCT FREQ OF WIND SPEED (KTS) AND DIRECTION VERSUS SEA HEIGHTS (FT)

HGT	1-3	4-10	11-21	22-33	34-47	48+	PCT	NE	1-3	4-10	11-21	22-33	34-47	48+	PCT
<1	.1	.3	.0	.0	.0	.0	.5	.2	.8	.0	.0	.0	.0	.0	1.0
1-2	.0	2.3	.9	.0	.0	.0	3.3	.0	2.2	.4	.0	.0	.0	.0	2.6
3-4	.0	1.0	1.5	.0	.0	.0	2.5	.0	1.1	1.3	.2	.0	.0	.0	2.6
5-6	.0	.2	3.3	1.4	.0	.0	4.9	.0	.2	1.3	.1	.0	.0	.0	1.6
7	.0	.0	.7	.5	.0	.0	1.2	.0	.0	.1	.8	.0	.0	.0	.9
8-9	.2	.0	.2	.6	.0	.0	1.0	.0	.0	.0	.7	.1	.0	.0	.9
10-11	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.2	.0	.0	.0	.2
12	.0	.0	.0	.2	.0	.0	.2	.0	.0	.0	.4	.0	.0	.0	.4
13-16	.0	.0	.0	.2	.0	.0	.2	.0	.0	.0	.0	.2	.0	.0	.2
17-19	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
20-22	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
23-25	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
26-32	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
33-40	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
41-48	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
49-60	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
61-70	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
71-86	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
87+	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
TOT PCT	.3	3.8	6.5	2.9	.0	.0	13.6	.2	4.3	3.0	2.3	.3	.0	.0	10.2

HGT	1-3	4-10	11-21	22-33	34-47	48+	PCT	SE	1-3	4-10	11-21	22-33	34-47	48+	PCT
<1	.4	.3	.0	.0	.0	.0	.7	.2	.9	.0	.0	.0	.0	.0	1.1
1-2	.0	1.2	.2	.0	.0	.0	1.4	.0	1.0	.2	.0	.0	.0	.0	1.2
3-4	.0	.0	.5	.0	.0	.0	.5	.0	.1	1.1	.0	.0	.0	.0	1.2
5-6	.0	.0	.0	.0	.0	.0	.0	.0	.0	.1	.0	.0	.0	.0	.1
7	.0	.0	.1	.0	.0	.0	.1	.0	.0	.0	.0	.0	.0	.0	.0
8-9	.0	.0	.0	.0	.4	.0	.4	.0	.0	.0	.0	.0	.0	.0	.0
10-11	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
12	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
13-16	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
17-19	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
20-22	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
23-25	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
26-32	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
33-40	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
41-48	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
49-60	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
61-70	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
71-86	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
87+	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
TOT PCT	.4	1.5	.9	.0	.4	.0	3.2	.2	1.9	1.4	.0	.0	.0	.0	3.6



PERIOD: (OVER-ALL) 1963-1970

AUGUST

AREA 0015 AUSTRALIAN BIGHT SW  
35.55 126.5E

TABLE 18 (CONT)

PCT FREQ OF WIND SPEED (KTS) AND DIRECTION VERSUS SEA HEIGHTS (FT)

HGT	1-3	4-10	11-21	22-33	34-47	48+	PCT	1-3	4-10	11-21	22-33	34-47	48+	PCT
<1	.3	.2	.0	.0	.0	.0	.5	.5	1.0	.0	.0	.0	.0	1.5
1-2	.3	1.2	.7	.0	.0	.0	2.3	*	2.6	.2	.0	.0	.0	2.9
3-4	.0	1.8	1.0	.0	.0	.0	2.9	.0	2.6	2.6	.6	.0	.0	5.7
5-6	.0	1.0	1.0	.5	.0	.0	2.5	.0	.3	3.4	1.1	.0	.0	4.7
7	.0	.0	.8	.4	.0	.0	1.2	.0	.2	.9	1.1	.0	.0	2.1
8-9	.0	.0	.0	.4	.1	.0	.5	.0	.0	.2	1.9	.2	.0	2.4
10-11	.0	.0	.6	.1	.0	.0	.7	.0	.0	*	.8	.0	.0	.9
12	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.2	.0	.0	.2
13-16	.0	.2	.0	.0	.0	.0	.2	.0	.0	.0	.0	.0	.0	.0
17-19	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
20-22	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
23-25	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
26-32	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
33-40	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
41-48	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
49-60	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
61-70	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
71-86	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
87+	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
TOT PCT	.6	4.5	4.1	1.4	.1	.0	10.7	.5	6.6	7.3	5.7	.2	.0	20.4

HGT	1-3	4-10	11-21	22-33	34-47	48+	PCT	1-3	4-10	11-21	22-33	34-47	48+	PCT	TOTAL PCT
<1	.5	1.8	.0	.0	.0	.0	1.3	.2	.3	.0	.0	.0	.0	.5	
1-2	.2	1.8	.4	.0	.0	.0	2.3	.0	1.3	.4	.0	.0	.0	1.7	
3-4	.0	2.7	3.5	.9	.0	.0	7.1	.0	.3	3.7	.8	.0	.0	4.6	
5-6	.0	.4	3.1	.3	.0	.0	3.7	.0	.0	3.6	.6	.0	.0	4.2	
7	.0	.0	2.3	2.1	.0	.0	4.4	.0	.0	1.6	.3	.0	.0	1.9	
8-9	.0	.0	.7	.7	.4	.0	1.8	.0	.0	.6	*	.4	.0	1.0	
10-11	.0	.0	.3	.4	.2	.0	.9	.0	.0	.0	.2	.0	.0	.2	
12	.0	.0	.1	.4	.0	.0	.6	.0	.0	*	.1	.0	.0	.1	
13-16	.0	.0	.0	.2	.0	.0	.2	.0	.0	.0	.0	.0	.0	.0	
17-19	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
20-22	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
23-25	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
26-32	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
33-40	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
41-48	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
49-60	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
61-70	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
71-86	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
87+	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
TOT PCT	.7	5.7	10.4	5.0	.6	.0	22.3	.2	1.9	9.9	1.8	.4	.0	14.3	98.3

WIND SPEED (KTS) VS SEA HEIGHT (FT)

HGT	0-3	4-10	11-21	22-33	34-47	48+	PCT	TOT OBS
<1	5.2	4.5	.0	.0	.0	.0	9.7	
1-2	.9	13.6	3.4	.0	.0	.0	17.9	
3-4	.0	9.5	14.9	2.2	.0	.0	26.6	
5-6	.0	2.0	15.5	3.9	.0	.0	21.4	
7	.0	.2	6.3	5.0	.0	.0	11.5	
8-9	.0	.2	1.7	4.3	1.7	.0	7.8	
10-11	.0	.0	.9	1.7	.2	.0	2.8	
12	.0	.0	.2	1.3	.0	.0	1.5	
13-16	.0	.2	.0	.4	.2	.0	.7	
17-19	.0	.0	.0	.0	.0	.0	.0	
20-22	.0	.0	.0	.0	.0	.0	.0	
23-25	.0	.0	.0	.0	.0	.0	.0	
26-32	.0	.0	.0	.0	.0	.0	.0	
33-40	.0	.0	.0	.0	.0	.0	.0	
41-48	.0	.0	.0	.0	.0	.0	.0	
49-60	.0	.0	.0	.0	.0	.0	.0	
61-70	.0	.0	.0	.0	.0	.0	.0	
71-86	.0	.0	.0	.0	.0	.0	.0	
87+	.0	.0	.0	.0	.0	.0	.0	
TOT PCT	6.3	30.0	42.8	18.8	2.0	.0	100.0	537

PERIOD: (OVER-ALL) 1949-1970

TABLE 19

PERCENT FREQUENCY OF WAVE HEIGHT (FT) VS WAVE PERIOD (SECONDS)

PERIOD (SEC)	<1	1-2	3-4	5-6	7	8-9	10-11	12	13-16	17-19	20-22	23-25	26-32	33-40	41-48	49-60	61-70	71-86	87+	TOTAL	MEAN HGT
<6	.3	3.5	5.6	4.2	1.8	.6	.4	.1	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	138	4
6-7	.0	.4	2.5	6.2	3.8	2.5	2.3	1.0	1.1	.3	.3	.0	.0	.0	.0	.0	.0	.0	.0	161	7
8-9	.0	.3	1.0	3.0	5.3	5.6	2.7	2.2	2.3	.4	.5	.4	.3	.0	.0	.0	.0	.0	.0	188	9
10-11	.0	.1	.3	1.4	3.7	1.8	2.4	3.0	2.3	.9	1.1	.4	.1	.0	.0	.0	.0	.0	.0	138	11
12-13	.0	.0	.4	.0	1.8	2.3	1.5	.8	.9	.6	.3	.1	.5	.0	.0	.0	.0	.0	.0	72	11
>13	.0	.0	.0	.1	.5	.4	.8	.4	1.3	.1	.3	.3	.1	.0	.0	.0	.0	.0	.0	33	13
INDET	.9	1.0	1.5	.8	1.1	.9	.8	.3	.1	.0	.0	.1	.0	.0	.0	.0	.0	.0	.0	59	5
TOT PCT	1.1	5.3	12.3	15.7	18.0	14.1	10.8	7.7	8.0	2.3	2.4	1.3	1.0	.0	.0	.0	.0	.0	.0	100.0	8

## SEPTEMBER

PERIOD: (PRIMARY) 1913-1970  
(OVER-ALL) 1855-1970

AREA 0015 AUSTRALIAN BIGHT SW  
35.55 126.5E

TABLE 1

## PERCENT FREQUENCY OF WEATHER OCCURRENCE BY WIND DIRECTION

PRECIPITATION TYPE										OTHER WEATHER PHENOMENA						
WIND DIR	RAIN	RAIN SHWR	DRIZ	FRZG PCPN	SNOW	OTHER FRZN PCPN	HAIL	PCPN AT OB TIME	PCPN PAST HOUR	THDR LTNG	FOG WD PCPN	FOG WD PCPN PAST HR	SMOKE HAZE	SPRAY BLWG SNOW	NO SIG WEA	
N	2.6	.7	.7	.0	.0	.0	.0	4.1	.4	1.5	.5	.0	1.2	.0	92.9	
NE	1.7	3.1	.8	.0	.0	.0	.0	5.5	1.1	.8	.0	.0	.0	.0	92.6	
E	8.8	2.1	7.0	.0	.0	.0	.0	17.9	4.6	.0	.0	.0	.0	.0	77.5	
SE	5.1	2.0	1.7	.0	.0	.0	.0	8.9	4.8	.0	.0	.0	.0	.0	86.3	
S	2.3	5.6	4.1	.0	.0	.0	.0	12.5	3.2	.0	.6	.0	.0	.0	83.7	
SW	3.0	4.4	1.1	.0	.0	.0	1.0	9.4	2.4	1.6	.0	.0	.0	.0	87.4	
W	3.2	6.6	2.3	.0	.0	.0	.3	12.5	3.7	.8	.9	.0	.5	.0	82.3	
NW	3.3	2.7	.7	.0	.0	.0	.0	6.8	.6	2.6	.6	.0	.6	.0	89.7	
VAR	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
CALM	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	6.7	.0	.0	.0	93.3	
TOT PCT	3.2	3.9	1.9	.0	.0	.0	.3	9.3	2.4	1.1	.5	.0	.3	.0	86.9	
TOT OBS:	1477															

TABLE 2

## PERCENT FREQUENCY OF WEATHER OCCURRENCE BY HOUR

HOUR (GMT)	PRECIPITATION TYPE							OTHER WEATHER PHENOMENA								
	RAIN	RAIN SHR	DRZL	FRZG PCPN	SNOW	OTHER FRZN PCPN	HAIL	PCPN AT OB TIME	PCPN PAST HOUR	THDR LTNG	FGG WD PCPN	FGG WD PCPN PAST HR	SMOKE HAZE	SPRAY BLWG BLWG	DUST SNOW	NIG SIG WEA
00003	3.6	3.8	1.7	.0	.0	.0	.7	9.8	2.1	.7	1.0	.0	.5	.0		86.4
06009	1.7	5.8	1.2	.0	.0	.0	.0	8.6	1.2	.0	.0	.0	.6	.0		89.6
12015	4.8	3.8	1.5	.0	.0	.0	.3	10.3	3.3	2.5	.5	.0	.8	.0		84.0
18021	3.0	2.4	3.8	.0	.0	.0	.3	9.5	3.0	1.2	.3	.0	.0	.0		86.4
TOT PCT	3.3	3.9	2.0	.0	.0	.0	.3	9.6	2.4	1.1	.5	.0	.5	.0		86.5
TOT OBS:	1504															

TABLE 3

## PERCENTAGE FREQUENCY OF WIND DIRECTION BY SPEED AND BY HOUR

WIND DIR	WIND SPEED (KNOTS)							TOTAL OBS	PCT FREQ	MEAN SPD	HOUR (GMT)							
	0-3	4-10	11-21	22-33	34-47	48+					00	03	06	09	12	15	18	21
N	.7	4.0	5.7	2.7	.2	.0		13.3	14.9		14.8	16.0	12.1	14.1	11.0	13.8	12.1	15.5
NE	.3	2.6	3.8	1.7	.1	.0		8.6	14.7		6.6	8.4	8.8	10.5	8.7	7.4	11.3	7.2
E	.1	1.7	2.3	.2	*	.0		4.3	12.3		5.4	3.5	2.8	5.5	4.8	4.0	4.0	4.1
SE	.1	2.0	2.0	.5	*	.0		4.7	12.7		4.9	4.2	4.6	4.5	4.7	5.0	4.8	4.5
S	.5	4.5	4.6	1.5	.1	.0		11.1	13.4		10.7	8.9	10.8	9.1	13.0	12.4	11.9	9.3
SW	.5	5.2	9.6	5.2	1.3	.3		22.1	17.8		21.2	22.6	23.1	19.5	22.9	22.3	20.4	26.8
W	.9	6.2	10.5	4.2	1.1	.4		23.4	16.6		23.4	21.5	24.5	24.1	23.3	24.0	23.1	22.3
NW	.4	4.0	5.1	1.5	.2	.0		11.2	14.0		12.4	13.5	11.7	12.7	10.3	9.7	10.5	6.4
VAR	.0	.0	.0	.0	.0	.0		.0	.0		.0	.0	.0	.0	.0	.0	.0	.0
CALM	1.3							1.3	.0		.5	1.4	1.6	.0	1.2	1.3	1.9	3.1
TOT OBS	99	620	897	361	64	15	2056		15.3		433	219	320	110	413	149	315	97
TOT PCT	4.8	30.2	43.6	17.6	3.1	.7		100.0			100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0

TABLE 3A

WIND DIR	WIND SPEED (KNOTS)					TOTAL OBS	PCT FREQ	MEAN SPD	HOUR (GMT)			
	0-6	7-16	17-27	28-40	41+				00	06	12	18
N	1.6	6.3	4.4	1.0	.0		13.3	14.9	15.2	12.6	11.7	12.9
NE	1.3	3.8	3.0	.4	.0		8.6	14.7	7.2	9.2	8.4	10.4
E	.6	2.7	.9	.1	.0		4.3	12.3	4.8	3.5	4.6	4.1
SE	1.0	2.3	1.2	.2	.0		4.7	12.7	4.7	4.6	4.8	4.7
S	2.0	5.5	3.0	.7	.0		11.1	13.4	10.1	10.3	12.8	11.3
SW	2.3	9.2	6.7	3.2	.7		22.1	17.8	21.7	22.2	22.8	21.9
W	3.0	10.0	7.0	2.6	.8		23.4	16.6	22.8	24.4	23.5	23.1
NW	1.8	5.4	3.5	.7	.0		11.2	14.0	12.8	12.0	10.1	9.5
VAR	.0	.0	.0	.0	.0		.0	.0	.0	.0	.0	.0
CALM	1.3						1.3	.0	.8	1.2	1.2	2.2
TOT OBS	306	929	610	181	30	2056		15.3	652	430	562	412
TOT PCT	14.9	45.2	29.7	8.8	1.5		100.0		100.0	100.0	100.0	100.0

SEPTEMBER

PERIOD: (PRIMARY) 1913-1970  
(OVER-ALL) 1855-1970AREA 0015 AUSTRALIAN BIGHT SW  
35.55 126.5E

TABLE 4

PERCENTAGE FREQUENCY OF WIND SPEED BY HOUR (GMT)

HOUR	CALM	1-3	4-10	WIND SPEED (KNOTS)			48+	MEAN	PCT FREQ	TOTAL OBS
				11-21	22-33	34-47				
00003	.8	3.7	28.2	45.1	18.3	3.2	.8	15.6	100.0	652
06009	1.2	2.6	24.9	47.9	18.6	4.0	.9	16.4	100.0	430
12015	1.2	3.2	34.9	40.4	17.1	2.5	.7	14.6	100.0	562
18021	2.2	4.9	32.3	41.3	16.0	2.9	.5	14.4	100.0	412
TOT	26	73	620	897	361	64	15	15.3		2056
PCT	1.3	3.6	30.2	43.6	17.6	3.1	.7		100.0	

TABLE 5

PCT FREQ OF TOTAL CLOUD AMOUNT (EIGHTHS)  
BY WIND DIRECTION

WIND DIR	0-2	3-4	5-7	8 & OBSCD	TOTAL OBS	MEAN CLOUD COVER
N	6.2	1.4	4.2	1.4		3.4
NE	3.4	1.0	2.8	1.8		4.1
E	.4	.3	2.4	1.5		6.4
SE	.6	.7	1.9	1.5		5.9
S	1.4	2.9	4.2	3.2		5.3
SW	3.9	5.4	9.4	3.8		4.9
W	5.8	4.3	8.3	3.5		4.5
NW	4.2	2.6	3.3	1.3		3.7
VAR	.0	.0	.0	.0		.0
CALM	.2	.2	.3	.3		4.8
TOT OBS	270	194	381	189	1034	4.6
TOT PCT	26.1	18.8	36.8	18.3	100.0	

TABLE 6

PERCENTAGE FREQUENCY OF CEILING HEIGHTS (FT, NH >4/8)  
AND OCCURRENCE OF NH <5/8 BY WIND DIRECTION

	000	150	300	600	1000	2000	3500	5000	6500	8000+	NH <5/8 TOTAL ANY HGT	TOTAL OBS
	149	299	599	999	1999	3499	4999	6499	7999			
N	.0	.0	.0	.5	1.1	.5	.8	.2	.0	.2	9.7	
NE	.0	.0	.0	.3	1.5	1.0	.7	.0	.0	*	5.4	
E	.0	.0	.1	.6	1.3	1.1	.2	.1	.0	.2	.9	
SE	.0	.0	*	.9	1.1	.6	.3	.0	.0	.1	1.6	
S	.0	.0	.3	.9	2.4	2.1	.6	.2	.0	.0	5.4	
SW	.0	.0	.0	1.3	4.7	1.7	1.7	.3	.0	.0	12.7	
W	.0	.0	.0	1.8	3.2	1.5	1.5	.4	.0	.1	13.4	
NW	.0	.0	.0	.7	.9	.5	1.0	.3	.0	*	8.1	
VAR	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
CALM	.1	.0	.0	.0	.3	.1	.0	.0	.0	.0	.5	
TOT OBS	1	0	4	73	171	95	70	15	0	7	598	1034
TOT PCT	.1	.0	.4	7.1	16.5	9.2	6.8	1.5	.0	.7	57.8	100.0

TABLE 7

CUMULATIVE PCT FREQ OF SIMULTANEOUS OCCURRENCE  
OF CEILING HEIGHT (NH >4/8) AND VSBY (NM)

CEILING (FEET)	VSBY (NM)							
	>10	>5	>2	>1	>1/2	>1/4	>50YD	>0
>4500	.6	.7	.7	.7	.7	.7	.7	.7
>4000	1.7	2.1	2.2	2.2	2.2	2.2	2.2	2.2
>3500	7.5	8.9	9.0	9.0	9.0	9.0	9.0	9.0
>3000	15.3	17.7	18.3	18.3	18.3	18.3	18.3	18.3
>2500	29.9	34.0	34.6	34.6	34.6	34.6	34.6	34.6
>2000	35.4	40.5	41.5	41.7	41.7	41.7	41.7	41.7
>1500	35.6	40.8	41.8	42.0	42.1	42.1	42.1	42.1
>1000	35.6	40.8	41.8	42.0	42.1	42.1	42.1	42.1
>500	35.6	40.8	41.8	42.0	42.1	42.1	42.1	42.1
>0	35.6	40.8	41.8	42.0	42.1	42.1	42.1	42.1
TOTAL	372	426	437	439	440	440	441	441

TOTAL NUMBER OF OBS: 1045

PCT FREQ NH &lt;5/8: 57.8

TABLE 7A

PERCENTAGE FREQ OF LOW CLOUDS (EIGHTHS)

0	1	2	3	4	5	6	7	8	OBSCD	TOTAL OBS
13.1	9.8	12.1	10.8	10.8	8.1	9.1	11.5	14.5	.1	1130

SEPTEMBER

PERIOD: (PRIMARY) 1913-1970  
(OVER-ALL) 1855-1970

AREA 0015 AUSTRALIAN BIGHT SW  
35.55 126.5E

TABLE 8

PERCENT FREQ OF WIND DIRECTION VS OCCURRENCE OR NON-OCCURRENCE OF  
PRECIPITATION WITH VARYING VALUES OF VISIBILITY

VISBY (NM)		N	NE	E	SE	S	SW	W	NW	VAR	CALM	PCT	TOTAL OBS
<1/2	PCP	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
	NO PCP	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.1	.1
	TOT %	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.1	.1
1/2<1	PCP	.0	.0	.1	*	.0	.1	.0	.0	.0	.0	.0	.1
	NO PCP	.0	.0	.0	.0	.1	.0	.1	.0	.0	.0	.0	.2
	TOT %	.0	.0	.1	*	.1	.1	.1	.0	.0	.0	.0	.3
1<2	PCP	.0	.0	.0	*	.1	.1	*	.0	.0	.0	.0	.2
	NO PCP	.2	.0	.0	.0	.0	.0	.1	.1	.0	.0	.0	.3
	TOT %	.2	.0	.0	*	.1	.1	.1	.1	.0	.0	.0	.5
2<5	PCP	.0	.1	.3	.0	.0	*	.4	.1	.0	.0	.0	.8
	NO PCP	*	.1	.1	.1	.1	*	.1	.0	.0	.0	.0	.6
	TOT %	*	.2	.4	.1	.1	.1	.5	.1	.0	.0	.0	1.4
5<10	PCP	.4	.3	.4	.3	.8	1.1	1.8	.5	.0	.0	.0	5.6
	NO PCP	3.6	1.8	1.3	1.5	2.5	3.8	4.0	2.5	.0	.0	.2	21.2
	TOT %	4.0	2.0	1.6	1.8	3.3	4.9	5.8	3.0	.0	.0	.2	26.7
10+	PCP	.2	.2	.2	.1	.6	.7	.6	.2	.0	.0	.0	2.6
	NO PCP	9.4	6.5	2.6	2.9	7.1	15.4	15.3	8.4	.0	.7	.68	22.2
	TOT %	9.6	6.6	2.8	3.0	7.7	16.1	15.8	8.6	.0	.7	.70	24.8
TOT OBS													1477
TOT PCT													100.0

TABLE 9

PERCENT FREQ OF WIND DIRECTION VS WIND SPEED  
WITH VARYING VALUES OF VISIBILITY

VSBY (NM)	SPD KTS	N	NE	E	SE	S	SW	W	NW	VAR	CALM	PCT	TOTAL OBS
<1/2	0-3	.0	.0	.0	.0	.0	.0	.0	.0	.0	.1	.1	
	4-10	.0	.0	.0	.0	.1	.0	.0	.0	.0		.1	
	11-21	.1	.0	.0	.0	.0	.0	.0	.0	.0		.1	
	22+	.0	.0	.0	.0	.0	.0	.0	.0	.0		.0	
	TOT %	.1	.0	.0	.0	.1	.0	.0	.0	.0	.1	.2	
1/2<1	0-3	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
	4-10	.0	.0	.0	.0	.0	.0	.0	.0	.0		.0	
	11-21	.0	.0	.0	.0	.1	.0	.1	.0	.0		.2	
	22+	.0	.0	.0	.0	.0	.1	.1	.0	.0		.1	
	TOT %	.0	.0	.0	.0	.1	.1	.1	.0	.0	.0	.3	
1<2	0-3	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
	4-10	.0	.0	.0	.0	.0	.0	.0	.0	.0		.0	
	11-21	.0	.0	.0	.0	.0	.1	.0	.0	.0		.2	
	22+	.2	.0	.0	.0	.0	.1	.1	.1	.0		.4	
	TOT %	.2	.0	.0	.0	.0	.2	.1	.1	.0	.0	.6	
2<5	0-3	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
	4-10	.0	.0	.0	.0	.1	.0	.1	.0	.0		.1	
	11-21	.0	.1	.3	.1	.1	.1	.2	.1	.0		.9	
	22+	.0	.1	.1	.0	.0	.1	.3	.0	.0		.6	
	TOT %	.0	.2	.3	.1	.2	.1	.6	.1	.0	.0	1.6	
5<10	0-3	.1	.2	.1	.0	.1	.0	.0	.1	.0	.2	.7	
	4-10	.9	.5	.7	.7	1.2	.8	1.2	.8	.0		6.8	
	11-21	2.0	1.1	.7	.8	1.3	1.8	2.2	1.3	.0		11.2	
	22+	.8	.2	.1	.3	.4	1.9	2.0	.6	.0		6.2	
	TOT %	3.7	1.9	1.5	1.8	3.0	4.5	5.4	2.8	.0	.2	24.9	
10+	0-3	.5	.2	.1	.1	.4	.4	.6	.4	.0	.7	3.2	
	4-10	3.1	2.1	1.0	1.5	3.3	4.5	5.2	3.6	.0		24.2	
	11-21	3.8	2.7	1.6	1.2	3.4	7.2	8.1	3.9	.0		32.1	
	22+	1.9	1.6	.8	.3	1.1	4.6	2.6	.9	.0		12.9	
	TOT %	9.3	6.5	2.8	3.0	8.2	16.7	16.4	8.8	.0	.7	72.4	
TOT OBS													1612
TOT PCT													100.0

SEPTEMBER

PERIOD: (PRIMARY) 1913-1970  
(OVER-ALL) 1855-1970

AREA 0015 AUSTRALIAN BIGHT SW  
35.55 126.56

TABLE 10

PERCENT FREQUENCY OF CEILING HEIGHTS (FEET, NH >4/8) AND  
OCCURRENCE OF NH <5/8 BY HOUR

HR	000	150	300	600	1000	2000	3500	5000	6500	8000+	TOTAL	NH <5/8 ANY HGT	TOTAL OBS
(GMT)	149	299	599	999	1999	3499	4999	6499	7999				
00003	.3	.0	.0	5.9	18.8	10.4	7.3	2.1	.0	.7	45.5	54.5	288
06009	.0	.0	.3	6.3	15.4	8.0	7.7	1.4	.0	.3	39.5	60.5	286
12015	.0	.0	.8	5.4	13.2	9.3	6.0	1.2	.0	.8	37.2	62.8	258
18021	.0	.0	.4	10.0	16.0	8.0	4.4	1.2	.0	.8	40.8	59.2	250
TOT	1	0	4	74	172	97	71	16	0	7	442	640	1082
PCT	.1	.0	.4	6.8	15.9	9.0	6.6	1.5	.0	.6	40.9	59.1	100.0

TABLE 11

PERCENT FREQUENCY VSBY (NM) BY HOUR

HR	<1/2	1/2<1	1<2	2<5	5<10	10+	TOTAL OBS
(GMT)							
00003	.2	.4	.9	.6	30.5	67.4	463
06009	.0	.0	.8	2.4	19.2	77.6	370
12015	.4	.2	1.1	1.8	28.0	68.5	447
18021	.0	.6	.0	1.7	21.4	76.3	359
TOT	3	5	12	26	414	1179	1639
PCT	.2	.3	.7	1.6	25.3	71.9	100.0

TABLE 12

CUMULATIVE PCT FREQ OF RANGES OF VSBY (NM) AND/OR  
CEILING HGT (FEET, NH >4/8) BY HOUR

HR	<150 <500	<600 <1	<1000 <5	1000+ AND 5+	NH <5/8 AND 5+	TOTAL OBS
(GMT)						
00003	.4	.4	7.1	39.6	53.2	280
06009	.0	.4	8.0	33.0	59.1	276
12015	.0	.8	7.6	31.3	61.0	249
18021	.0	.4	11.3	31.3	57.5	240
TOT	1	5	88	355	602	1045
PCT	.1	.5	8.4	34.0	57.6	100.0

TABLE 13

PERCENT FREQUENCY OF RELATIVE HUMIDITY BY TEMP

TEMP F	0-29	30-39	40-49	50-59	60-69	70-79	80-89	90-100	TOTAL OBS	PCT FREQ
65/69	.0	.0	.0	.0	.0	.2	.0	.3	6	.5
60/64	.0	.0	.1	.2	1.1	3.0	3.4	.5	108	8.8
55/59	.0	.0	.1	2.2	6.7	15.1	23.2	9.5	697	56.8
50/54	.0	.0	.0	3.3	9.6	7.9	8.1	2.7	388	31.6
45/49	.0	.0	.0	.1	.7	1.1	.3	.2	29	2.4
TOTAL	0	0	2	71	222	335	436	162	1228	100.0
PCT	.0	.0	.2	5.8	18.1	27.3	35.5	13.2		

TABLE 14

PERCENT FREQUENCY OF WIND DIRECTION BY TEMP

N	NE	E	SE	S	SW	W	NW	VAR	CALM
65/69	.1	.1	.1	.0	.0	.1	.1	.0	.0
60/64	2.2	.8	.3	.3	.2	.5	2.1	2.2	.0
55/59	9.2	6.0	3.2	1.7	3.3	9.5	15.0	8.4	.0
50/54	.7	.9	.9	3.0	6.6	12.2	5.6	1.3	.0
45/49	.0	.0	.0	.4	.8	1.0	.2	.0	.0
TOTAL	12.2	7.8	4.5	5.4	10.9	23.4	22.9	12.0	.0
PCT	12.2	7.8	4.5	5.4	10.9	23.4	22.9	12.0	.0

TABLE 15

MEANS, EXTREMES AND PERCENTILES OF TEMP (DEG F) BY HOUR

HR	MAX	99%	95%	50%	5%	1%	MIN	MEAN	TOTAL OBS
(GMT)									
00003	70	63	61	56	51	48	46	56.3	639
06009	68	66	62	57	52	49	48	57.2	420
12015	67	62	60	55	50	48	46	55.3	552
18021	64	62	59	55	49	47	45	54.7	412
TOT	70	63	61	56	51	48	45	55.9	2033

TABLE 16

PERCENT FREQUENCY OF RELATIVE HUMIDITY BY HOUR

HR	0-29	30-39	40-49	50-59	60-69	70-79	80-89	90-100	MEAN	TOTAL OBS
(GMT)										
00003	.0	5.3	17.5	26.7	36.8	13.6	78	337		
06009	.0	9.0	18.7	31.0	35.0	6.3	76	300		
12015	.0	5.0	17.0	28.0	34.0	16.0	79	318		
18021	.0	4.5	19.4	22.6	36.1	17.4	79	288		
TOT	0	74	225	337	441	166	78	1243		



SEPTEMBER

PERIOD: (PRIMARY) 1913-1970  
(OVER-ALL) 1855-1970

AREA 0015 AUSTRALIAN BIGHT SW  
35.5S 126.5E

TABLE 17

PCT FREQ OF AIR TEMPERATURE (DEG F) AND THE OCCURRENCE OF FOG (WITHOUT PRECIPITATION)  
VS AIR-SEA TEMPERATURE DIFFERENCE (DEG F)

AIR-SEA TMP DIF	45	49	53	57	61	65	TOT	W FOG	NO FOG
9/10	.0	.0	.0	.0	.1	.2	3	.0	.2
7/8	.0	.0	.0	.1	.1	.1	3	.0	.2
6	.0	.0	.0	.2	.2	.1	6	.0	.5
5	.0	.0	.2	.4	.5	.0	14	.1	1.0
4	.0	.0	.4	.8	.7	.0	24	.2	1.7
3	.0	.0	.3	3.3	1.3	.0	63	.0	4.9
2	.0	.1	.8	6.9	.8	.0	109	.0	8.5
1	.0	.0	2.4	8.6	.4	.1	147	.1	11.4
0	.0	.3	6.8	10.2	.4	.1	227	.1	17.7
-1	.0	.5	9.5	4.8	.2	.0	191	.0	15.0
-2	.0	.9	8.9	1.6	.0	.0	145	.0	11.4
-3	.0	2.3	7.0	.8	.0	.0	128	.0	10.0
-4	.0	2.9	3.8	.5	.0	.0	92	.1	7.1
-5	.0	1.4	1.4	.1	.0	.0	37	.0	2.9
-6	.2	1.8	.9	.1	.0	.0	39	.0	3.1
-7/-8	.2	1.8	.5	.1	.0	.0	34	.0	2.7
-9/-10	.2	.4	.0	.0	.0	.0	7	.0	.5
-11/-13	.1	.1	.1	.0	.0	.0	3	.0	.2
-14/-16	.2	.1	.1	.0	.0	.0	4	.0	.3
TOTAL	11	160	490	60	6	1276	6	1270	
PCT	.9	12.5	43.0	38.4	4.7	.5	100.0	.5	99.5

PERIOD: (OVER-ALL) 1963-1970

TABLE 18

PCT FREQ OF WIND SPEED (KTS) AND DIRECTION VERSUS SEA HEIGHTS (FT)

HGT	1-3	4-10	11-21	22-33	34-47	48+	PCT	1-3	4-10	11-21	22-33	34-47	48+	PCT
<1	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
1-2	.2	2.6	.9	.0	.0	.0	3.7	.0	2.8	.3	.0	.0	.0	3.1
3-4	.0	1.1	2.8	.4	.0	.0	4.4	.0	.6	1.1	.3	.0	.0	1.9
5-6	.0	.3	1.4	1.0	.0	.0	2.7	.0	.0	.7	.6	.0	.0	1.2
7	.0	.0	.4	.6	.0	.0	1.1	.0	.0	*	.2	.0	.0	.3
8-9	.0	.0	.2	.5	.0	.0	.6	.0	.0	.0	*	.2	.0	.2
10-11	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
12	.1	.0	.0	.3	.0	.0	.4	*	.0	.0	.0	.0	.0	*
13-16	.0	.0	.0	.2	.3	.0	.4	.0	.0	.0	.0	.1	.0	.1
17-19	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
20-22	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
23-25	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
26-32	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
33-40	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
41-48	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
49-60	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
61-70	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
71-86	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
87+	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
TOT PCT	.3	4.1	5.7	3.0	.3	.0	13.3	*	3.3	2.0	1.1	.3	.0	6.7

HGT	1-3	4-10	11-21	22-33	34-47	48+	PCT	1-3	4-10	11-21	22-33	34-47	48+	PCT
<1	.0	.0	.0	.0	.0	.0	.0	.2	.6	.0	.0	.0	.0	.7
1-2	.2	1.1	.4	.0	.0	.0	1.7	.0	2.1	.4	.0	.0	.0	2.5
3-4	.0	.4	1.5	.0	.0	.0	1.9	.0	.5	1.1	.0	.0	.0	1.6
5-6	.0	.0	1.2	.0	.0	.0	1.2	.0	.0	.8	.0	.0	.0	.8
7	.0	.0	.3	.1	.0	.0	.5	.0	.2	.0	*	.0	.0	.2
8-9	.0	.0	.0	.1	.0	.0	.1	.0	.0	.0	*	.0	.0	*
10-11	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.2	.0	.0	.2
12	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
13-16	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
17-19	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
20-22	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
23-25	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
26-32	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
33-40	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
41-48	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
49-60	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
61-70	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
71-86	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
87+	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
TOT PCT	.2	1.5	3.5	.3	.0	.0	5.4	.2	3.3	2.3	.3	.0	.0	6.0

PERIOD: (OVER-ALL) 1963-1970

SEPTEMBER

AREA 0015 AUSTRALIAN RIGHT SW  
35.55 126.5E

TABLE 18 (CONT)

PCT FREQ OF WIND SPEED (KTS) AND DIRECTION VERSUS SEA HEIGHTS (FT)

HGT	1-3	4-10	11-21	22-33	34-47	48+	PCT	1-3	4-10	11-21	22-33	34-47	48+	PCT
<1	.0	.4	.0	.0	.0	.0	1.4	.0	.4	.0	.0	.0	.0	.4
1-2	.0	1.8	.3	.0	.0	.0	2.1	.3	3.7	1.7	.0	.0	.0	5.8
3-4	.2	1.6	2.1	.0	.0	.0	3.9	.0	1.2	3.6	1.4	.0	.0	6.1
5-6	.0	.3	1.8	.0	.0	.0	2.1	.0	.2	2.5	.6	.0	.0	3.3
7	.0	.0	.7	.4	.0	.0	1.1	.0	.0	1.1	1.2	.0	.0	2.3
8-9	.0	.0	.0	.0	.2	.0	.2	.0	.0	.4	.3	.3	.2	1.2
10-11	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.2	.3	.0	.5
12	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.5	.0	.0	.7
13-16	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.3	.2	.0	.5
17-19	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
20-22	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
23-25	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
26-32	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.2	.0	.2
33-40	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.3	.3
41-48	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
49-60	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
61-70	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
71-86	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
87+	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
TOT PCT	.2	4.2	4.9	.4	.2	.0	9.8	.3	5.6	9.4	4.4	1.0	.5	21.3

HGT	1-3	4-10	11-21	22-33	34-47	48+	PCT	1-3	4-10	11-21	22-33	34-47	48+	PCT	TOTAL PCT
<1	.3	.8	.3	.0	.0	.0	1.4	.3	.5	.0	.0	.0	.0	.6	
1-2	.2	5.1	1.4	.0	.0	.0	6.7	.3	2.7	1.0	.0	.0	.0	4.0	
3-4	.0	2.4	4.2	.3	.0	.0	6.9	.2	1.1	1.4	.2	.0	.0	2.8	
5-6	.0	.1	3.1	.8	.0	.0	4.0	.0	.4	2.1	.2	.0	.0	2.7	
7	.0	.0	1.7	.0	.0	.0	2.7	.0	.2	.8	.2	.0	.0	1.2	
8-9	.0	.0	1.0	.4	.0	.0	1.4	.0	.0	.0	.3	.0	.0	.3	
10-11	.0	.0	.3	.1	.0	.0	.5	.0	.0	.0	.0	.0	.0	.2	
12	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
13-16	.0	.0	.0	.0	.0	.2	.2	.0	.0	.0	.0	.0	.0	.0	
17-19	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
20-22	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
23-25	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
26-32	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
33-40	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
41-48	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
49-60	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
61-70	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
71-86	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
87+	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
TOT PCT	.5	8.5	11.9	2.7	.0	.2	23.7	.6	4.8	5.4	1.0	.2	.0	11.9	98.1

WIND SPEED (KTS) VS SEA HEIGHT (FT)

HGT	0-3	4-10	11-21	22-33	34-47	48+	PCT	TOT DBS
<1	2.5	2.7	.3	.0	.0	.0	5.6	
1-2	1.2	21.8	6.4	.0	.0	.0	29.4	
3-4	.3	9.0	17.7	2.5	.0	.0	29.6	
5-6	.0	1.4	13.5	3.0	.0	.0	17.9	
7	.0	.3	5.1	3.9	.0	.0	9.3	
8-9	.0	.0	1.5	1.7	.7	.2	4.1	
10-11	.0	.0	.3	.5	.5	.0	1.4	
12	.2	.0	.0	.8	.0	.0	1.2	
13-16	.0	.0	.0	.5	.5	.2	1.2	
17-19	.0	.0	.0	.0	.0	.0	.0	
20-22	.0	.0	.0	.0	.0	.0	.0	
23-25	.0	.0	.0	.0	.0	.0	.0	
26-32	.0	.0	.0	.0	.2	.0	.2	
33-40	.0	.0	.0	.0	.0	.3	.3	
41-48	.0	.0	.0	.0	.0	.0	.0	
49-60	.0	.0	.0	.0	.0	.0	.0	
61-70	.0	.0	.0	.0	.0	.0	.0	
71-86	.0	.0	.0	.0	.0	.0	.0	
87+	.0	.0	.0	.0	.0	.0	.0	
TOT PCT	4.2	35.3	44.9	13.0	1.9	.7	100.0	592

PERIOD: (OVER-ALL) 1949-1970

TABLE 19

PERCENT FREQUENCY OF WAVE HEIGHT (FT) VS WAVE PERIOD (SECONDS)

PERIOD (SEC)	<1	1-2	3-4	5-6	7	8-9	10-11	12	13-16	17-19	20-22	23-25	26-32	33-40	41-48	49-60	61-70	71-86	87+	TOTAL	MEAN HGT	
<6	.6	1.7	4.6	3.1	.6	.6	.4	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	97	4
6-7	.0	.0	2.2	5.0	4.4	3.7	1.7	1.1	.7	.4	.6	.0	.0	.0	.0	.0	.0	.0	.0	.0	166	8
8-9	.0	.0	1.2	4.0	5.9	5.7	3.3	2.0	2.2	.6	.1	.0	.1	.2	.0	.0	.0	.0	.0	.0	215	9
10-11	.0	.2	1.2	1.9	3.2	4.3	3.3	2.4	2.8	.6	.5	.0	.1	.0	.0	.0	.0	.0	.0	.0	173	9
12-13	.0	.0	.2	.5	.9	1.5	1.4	.8	2.2	.7	.8	.0	.1	.0	.0	.0	.0	.0	.0	.0	79	12
>13	.0	.0	.0	.0	.1	.5	.2	.7	.8	.2	.5	.5	.4	.0	.0	.0	.0	.0	.0	.0	33	15
INDST	.8	1.1	1.7	1.2	.9	1.2	1.4	.6	.6	.1	.2	.0	.0	.0	.0	.0	.0	.0	.0	.0	83	7
TOTAL	12	25	94	132	136	147	99	64	80	22	23	4	5	3	0	0	0	0	0	0	846	8
PCT	1.4	3.0	11.1	15.6	16.1	17.4	11.7	7.6	9.5	2.6	2.7	.5	.6	.4	.0	.0	.0	.0	.0	.0	100.0	

PERIOD: (PRIMARY) 1912-1971  
(OVER-ALL) 1859-1971

OCTOBER

AREA 0015 AUSTRALIAN BIGHT SW  
35.55 126.5E

TABLE 1

PERCENT FREQUENCY OF WEATHER OCCURRENCE BY WIND DIRECTION

WIND DIR	PRECIPITATION TYPE							OTHER WEATHER PHENOMENA						
	RAIN	RAIN SHWR	DRZL	FRZG PCPN	SNOW	OTHER FRZN PCPN	HAIL	PCPN AT OB TIME	PCPN PAST HOUR	THOR LTNG	FOG WD PCPN	FOG WD PCPN PAST HR	SMOKE HAZE	SPRAY BLWG DUST SIG
N	2.9	.2	.8	.0	.0	.0	.0	3.9	1.0	2.2	.6	.0	2.3	.0
NE	2.1	.6	.8	.0	.0	.0	.0	3.6	.6	.7	1.3	.0	2.1	.4
E	8.1	3.5	.9	.0	.0	.0	.0	12.5	3.3	3.1	.0	.0	1.5	.0
SE	4.9	4.4	5.1	.0	.0	.0	.0	14.2	2.2	1.3	.4	.0	.0	.0
S	1.6	4.6	1.8	.0	.0	.0	.0	7.6	2.3	.8	1.1	.0	.0	.0
SW	3.2	8.7	1.5	.0	.0	.0	1.0	14.5	3.2	.6	.1	.0	.6	.0
W	1.4	7.1	.8	.0	.0	.0	.5	9.6	3.5	2.9	.7	.0	.3	.3
NW	3.7	3.0	1.8	.0	.0	.0	.0	8.6	3.2	1.3	.9	.0	.8	.0
VAR	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
CALM	.0	.0	9.1	.0	.0	.0	.0	9.1	.0	.0	.0	.0	.0	.0
TOT PCT	2.9	4.4	1.5	.0	.0	.0	.3	9.1	2.4	1.5	.7	.0	.9	.1
TOT OBS:	1811													85.6

TABLE 2

PERCENT FREQUENCY OF WEATHER OCCURRENCE BY HOUR

HOUR (GMT)	PRECIPITATION TYPE							OTHER WEATHER PHENOMENA						
	RAIN	RAIN SHWR	DRZL	FRZG PCPN	SNOW	OTHER FRZN PCPN	HAIL	PCPN AT OB TIME	PCPN PAST HOUR	THOR LTNG	FOG WD PCPN	FOG WD PCPN PAST HR	SMOKE HAZE	SPRAY BLWG DUST SIG
00003	2.5	5.0	1.4	.0	.0	.0	.2	9.2	3.2	.2	1.1	.0	1.1	.0
06009	2.6	4.0	.9	.0	.0	.0	.2	7.7	2.8	.7	1.7	.0	1.6	.0
12015	3.7	3.9	1.2	.0	.0	.0	.4	9.1	1.2	2.5	.2	.0	1.0	.4
18021	3.0	4.3	2.5	.0	.0	.0	.3	10.0	2.3	3.0	.8	.0	.0	.0
TOT PCT	3.0	4.3	1.5	.0	.0	.0	.3	9.0	2.4	1.5	.7	.0	1.0	.1
TOT OBS:	1863													85.6

TABLE 3

PERCENTAGE FREQUENCY OF WIND DIRECTION BY SPEED AND BY HOUR

WIND DIR	WIND SPEED (KNOTS)							TOTAL OBS	PCT FREQ	MEAN SPD	HOUR (GMT)						
	0-3	4-10	11-21	22-33	34-47	48+					00	03	06	09	12	15	18
N	.7	5.5	5.9	2.0	.2	.0		14.3	13.6		16.3	14.7	12.3	19.1	11.6	14.9	17.1
NE	.5	4.1	6.1	2.1	.1	.0		12.9	14.5		11.4	12.8	9.3	14.7	13.6	15.0	13.7
E	.3	2.8	2.0	1.0	.1	.0		6.2	13.1		6.9	5.6	6.3	3.3	6.8	7.1	4.8
SE	.2	2.3	2.0	.6	.2	*		5.3	13.8		5.1	4.3	5.4	3.9	6.0	4.6	7.8
S	.4	5.1	4.3	1.8	.2	.0		11.8	13.4		11.5	10.4	14.5	12.4	12.2	8.9	13.0
SW	.6	4.6	7.6	4.5	1.3	.4		19.0	18.2		17.8	18.0	19.5	14.4	20.4	18.5	21.0
W	.6	5.7	7.0	4.3	.8	.1		18.5	16.3		17.0	16.9	19.9	20.3	19.0	19.8	16.1
NW	.7	4.8	3.6	1.3	.1	*		10.7	12.4		11.8	11.9	12.2	10.0	9.2	9.7	10.8
VAR	.0	.0	.0	.0	.0	.0		.0	.0		.0	.0	.0	.0	.0	.0	.0
CALM	1.5							1.5	.0		1.7	2.3	.5	2.0	1.3	1.4	2.2
TOT OBS	140	883	976	446	77	14	2536		14.7		538	302	380	153	469	208	347
TOT PCT	5.5	34.8	38.5	17.6	3.0	.6	100.0				100.0	100.0	100.0	100.0	100.0	100.0	100.0

TABLE 3A

WIND DIR	WIND SPEED (KNOTS)							TOTAL OBS	PCT FREQ	MEAN SPD	HOUR (GMT)						
	0-6	7-16	17-27	28-40	41+						00	03	06	09	12	15	18
N	2.8	6.4	4.2	.9	.0			14.3	13.6		15.7	14.3	12.6	14.2			
NE	1.5	6.4	4.2	.7	.0			12.9	14.5		12.2	10.9	14.1	14.6			
E	1.3	2.8	1.7	.3	*			6.2	13.1		6.4	5.4	6.9	5.6			
SE	.9	2.7	1.3	.2	.1			5.3	13.8		4.8	5.0	5.6	6.0			
S	2.4	5.6	3.2	.5	.1			11.8	13.4		11.1	13.9	11.2	11.5			
SW	1.9	7.4	6.1	2.8	.8			19.0	18.2		17.9	18.1	19.8	20.7			
W	2.9	7.1	5.7	2.5	.3			18.5	16.3		18.0	20.0	19.2	16.6			
NW	2.4	5.5	2.3	.5	*			10.7	12.4		11.9	11.5	9.3	9.5			
VAR	.0	.0	.0	.0	.0			.0	.0		.0	.0	.0	.0			
CALM	1.5							1.5	.0		1.9	.9	1.3	1.4			
TOT OBS	443	1115	729	215	34	2536			14.7		840	533	677	486			
TOT PCT	17.5	44.0	28.7	8.5	1.3	100.0					100.0	100.0	100.0	100.0			

OCTOBER

PERIOD: (PRIMARY) 1912-1971  
(OVER-ALL) 1859-1971AREA 0015 AUSTRALIAN BIGHT SW  
35.55 126.5F

TABLE 4

PERCENTAGE FREQUENCY OF WIND SPEED BY HOUR (GMT)

HOUR	CALM	1-3	4-10	WIND SPEED (KNOTS)			48+	MEAN	PCT FREQ	TOTAL OBS
				11-21	22-33	34-47				
00003	1.9	4.3	32.1	40.0	18.5	2.6	.6	14.8	100.0	840
06009	.9	3.4	34.5	38.5	19.9	2.4	.4	15.0	100.0	533
12015	1.3	4.7	36.6	36.8	15.5	4.3	.7	14.7	100.0	677
18021	1.4	3.5	37.2	38.3	16.5	2.7	.4	14.4	100.0	486
TOT	.37	103	883	976	446	77	14	14.7		2536
PCT	1.5	4.1	34.8	38.5	17.6	3.0	.6	100.0		

TABLE 5

PCT FREQ OF TOTAL CLOUD AMOUNT (EIGHTHS)  
BY WIND DIRECTION

WIND DIR	0-2	3-4	5-7	8 & OBSCD	TOTAL OBS	MEAN CLOUD COVER
N	4.3	2.1	4.2	2.3	4.2	4.2
NE	2.7	2.3	5.1	2.5	4.8	4.8
E	.5	.9	2.6	2.3	6.1	6.1
SE	.8	.7	2.4	3.8	6.3	6.3
S	1.5	2.9	5.5	3.4	5.5	5.5
SW	2.5	4.7	7.8	4.0	5.2	5.2
W	5.5	2.9	6.8	2.1	4.3	4.3
NW	3.8	1.7	3.3	1.4	4.1	4.1
VAR	.0	.0	.0	.0	.0	.0
CALM	.3	.2	.3	.0	3.6	3.6
TOT OBS	238	200	415	237	1090	4.9
TOT PCT	21.8	18.3	38.1	21.7	100.0	

TABLE 6

PERCENTAGE FREQUENCY OF CEILING HEIGHTS (FT, NH >4/8)  
AND OCCURRENCE OF NH <5/8 BY WIND DIRECTION

000 149	150 299	300 599	600 999	1000 1999	2000 3499	3500 4999	5000 6499	6500 7999	8000+	NH <5/8 ANY HGT	TOTAL OBS
.00	.00	.1	.3	2.0	.5	.5	.5	.2	.0	8.9	
.1	.0	.1	.8	1.7	1.2	.6	.0	.2	.4	7.5	
.0	.0	.1	1.1	1.5	.6	.7	.0	.0	.0	2.4	
*	.0	.3	.8	2.0	1.9	.6	*	.0	.0	2.0	
.1	.0	.0	1.0	2.6	1.1	1.0	.5	.1	.2	6.1	
.1	.0	.1	1.6	3.8	1.6	1.7	.5	.1	.1	9.4	
*	.0	.2	1.1	2.9	1.6	.8	.3	.2	.2	9.9	
.0	.0	.4	.8	1.1	.6	.6	.1	.0	*	6.6	
.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
.0	.0	.1	.1	.0	.0	.0	.0	.0	.0	.6	
8	0	14	91	191	98	71	21	9	9	581	
.5	.0	1.3	8.3	17.5	9.0	6.5	1.9	.8	.8	53.3	
										1090	
										100.0	

TABLE 7

CUMULATIVE PCT FREQ OF SIMULTANEOUS OCCURRENCE  
OF CEILING HEIGHT (NH >4/8) AND VSBY (NM)

CEILING (FEET)	VSBY (NM)							
	>10	>5	>2	>1	>1/2	>1/4	>50YD	>0
>6500	1.3	1.7	1.7	1.7	1.7	1.7	1.7	1.7
>6000	2.9	3.6	3.6	3.6	3.6	3.6	3.6	3.6
>5500	7.8	9.7	10.0	10.0	10.0	10.0	10.0	10.0
>5000	16.0	18.6	19.0	19.0	19.0	19.0	19.0	19.0
>4500	30.5	35.8	36.5	36.6	36.6	36.6	36.6	36.6
>4000	35.8	43.0	44.8	44.9	44.9	44.9	44.9	44.9
>3500	36.4	44.1	46.1	46.2	46.2	46.2	46.2	46.2
>3000	36.4	44.1	46.1	46.2	46.2	46.2	46.2	46.2
>2500	36.7	44.5	46.5	46.5	46.5	46.6	46.6	46.6
TOTAL	408	495	517	518	518	519	519	519

TOTAL NUMBER OF OBS: 1113

PCT FREQ NH &lt;5/8: 53.4

TABLE 7A

PERCENTAGE FREQ OF LOW CLOUDS (EIGHTHS)

	0	1	2	3	4	5	6	7	8	OBSCD	TOTAL OBS
	10.9	10.2	10.4	10.8	9.6	8.7	9.6	12.3	17.5	.1	1234

PERIOD: (PRIMARY) 1912-1971  
(OVER-ALL) 1859-1971

OCTOBER

AREA 0015 AUSTRALIAN BIGHT SW  
35.55 126.5E

TABLE 8

PERCENT FREQ OF WIND DIRECTION VS OCCURRENCE OR NON-OCCURRENCE OF  
PRECIPITATION WITH VARYING VALUES OF VISIBILITY

VSBY (NM)		N	NE	E	SE	S	SW	W	NW	VAR	CALM	PCT	TOTAL OBS
<1/2	PCP	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
	NO PCP	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
	TOT %	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
1/2<1	PCP	.1	.0	.0	.1	.1	.1	.0	.0	.0	.0	.0	.3
	NO PCP	.1	.1	.0	.0	.1	.0	.0	.1	.0	.0	.0	.4
	TOT %	.1	.1	.0	.1	.1	.1	.0	.1	.0	.0	.0	.7
1<2	PCP	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
	NO PCP	.1	.1	.1	.1	.0	.1	.0	.0	.0	.0	.0	.5
	TOT %	.1	.1	.1	.1	.0	.1	.0	.0	.0	.0	.0	.5
2<5	PCP	.0	.1	.2	.2	.1	.2	.2	.1	.0	.0	1.0	
	NO PCP	.0	.1	.1	.1	.1	.0	.1	.0	.0	.0	.4	
	TOT %	.0	.2	.3	.3	.2	.2	.2	.1	.0	.0	1.5	
5<10	PCP	.4	.3	.5	.3	.5	1.9	1.3	.6	.0	.0	5.9	
	NO PCP	5.0	4.9	1.4	1.2	3.1	4.7	6.4	3.5	.0	.1	30.3	
	TOT %	5.4	5.2	1.9	1.6	3.6	6.5	7.7	4.1	.0	.1	36.1	
10+	PCP	.1	.1	.1	.3	.2	.6	.3	.2	.0	.1	1.9	
	NO PCP	8.2	7.3	4.0	3.9	8.2	11.3	10.1	5.9	.0	.4	59.2	
	TOT %	8.2	7.3	4.1	4.2	8.4	11.9	10.4	6.1	.0	.5	61.1	
TOT OBS													
TOT PCT													
		13.9	13.0	6.3	6.2	12.4	18.8	18.3	10.5	.0	.6	100.0	1811

TABLE 9

PERCENT FREQ OF WIND DIRECTION VS WIND SPEED  
WITH VARYING VALUES OF VISIBILITY

VSBY (NM)	SPD KTS	N	NE	E	SE	S	SW	W	NW	VAR	CALM	PCT	TOTAL OBS
<1/2	0-3	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
	4-10	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
	11-21	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
	22+	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
	TOT %	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
1/2<1	0-3	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
	4-10	.1	.0	.0	.1	.0	.0	.0	.0	.0	.0	.1	
	11-21	.1	.1	.0	.0	.1	.0	.0	.0	.0	.0	.4	
	22+	.0	.0	.0	.0	.0	.1	.0	.1	.0	.0	.2	
	TOT %	.1	.1	.0	.1	.1	.1	.0	.1	.0	.0	.6	
1<2	0-3	.0	.0	.0	.0	.0	.1	.0	.0	.0	.0	.1	
	4-10	.0	.0	.1	.0	.0	.0	.0	.0	.0	.0	.1	
	11-21	.1	.0	.0	.0	.0	.0	.0	.0	.0	.0	.1	
	22+	.0	.1	.0	.1	.0	.0	.0	.0	.0	.0	.2	
	TOT %	.1	.1	.1	.1	.0	.1	.0	.0	.0	.0	.5	
2<5	0-3	.0	.1	.0	.0	.0	.0	.0	.0	.0	.0	.1	
	4-10	.0	.1	.1	.0	.1	.0	.1	.0	.0	.0	.4	
	11-21	.0	.0	.0	.0	.0	.1	.1	.1	.0	.0	.2	
	22+	.0	.0	.1	.3	.0	.1	.1	.1	.0	.0	.7	
	TOT %	.0	.2	.2	.3	.2	.2	.2	.1	.0	.0	1.4	
5<10	0-3	.2	.1	.2	.1	.2	.0	.1	.2	.0	.2	1.1	
	4-10	1.4	1.5	.6	.8	1.1	.9	1.8	1.5	.0	.0	9.4	
	11-21	2.4	2.6	.7	.5	1.8	2.4	2.5	1.2	.0	.0	14.0	
	22+	1.4	1.0	.4	.2	.4	2.9	3.0	1.0	.0	.0	10.4	
	TOT %	5.3	5.1	1.9	1.6	3.4	6.2	7.2	3.9	.0	.2	34.8	
10+	0-3	.5	.1	.1	.2	.3	.3	.4	.4	.0	.6	2.9	
	4-10	3.7	2.1	2.1	1.7	4.4	3.6	4.0	3.1	.0	.0	24.7	
	11-21	3.1	4.2	1.5	1.8	2.7	5.4	4.4	2.5	.0	.0	25.6	
	22+	1.1	1.1	.5	.5	1.4	2.8	1.7	.3	.0	.0	9.3	
	TOT %	8.4	7.6	4.2	4.2	8.8	12.2	10.5	6.3	.0	.6	62.6	
TOT OBS													
TOT PCT													
		14.0	13.1	6.4	6.2	12.5	18.7	17.9	10.4	.0	.7	100.0	1942



## OCTOBER

PERIOD: (PRIMARY) 1912-1971  
(OVER-ALL) 1859-1971AREA 0015 AUSTRALIAN BIGHT SW  
35.55 126.5E

TABLE 10

PERCENT FREQUENCY OF CEILING HEIGHTS (FEET, NH >4/8) AND  
OCCURRENCE OF NH <5/8 BY HOUR

HOURL (GMT)	000 149	150 299	300 599	600 999	1000 1999	2000 3499	3500 4999	5000 6499	6500 7999	8000+	TOTAL	NH <5/8 ANY HGT	TOTAL OBS
00003	.0	.0	2.1	7.8	23.4	9.9	5.1	1.8	.9	.6	51.5	48.5	334
06009	.0	.0	1.0	9.2	11.4	8.8	5.2	2.6	1.3	.3	39.9	60.1	306
12015	.8	.0	.4	8.0	13.4	6.9	7.3	1.1	.4	1.1	39.5	60.5	261
18021	1.2	.0	1.2	6.9	18.5	8.5	7.7	1.5	.4	1.5	47.5	52.5	259
TOT	5	0	14	93	196	100	72	21	9	10	520	640	1160
PCT	.4	.0	1.2	8.0	16.9	8.6	6.2	1.8	.8	.9	44.8	55.2	100.0

TABLE 11

PERCENT FREQUENCY VSBY (NM) BY HOUR

HOURL (GMT)	<1/2	1/2<1	1<2	2<5	5<10	10+	TOTAL OBS
00003	.2	.8	.7	1.8	39.4	57.1	597
06009	.0	.4	.4	2.0	26.6	70.5	451
12015	.0	.6	.8	.8	41.0	57.0	525
18021	.2	.5	.0	1.0	31.4	67.0	421
TOT	2	12	10	28	702	1240	1994
PCT	.1	.6	.5	1.4	35.2	62.2	100.0

TABLE 12

CUMULATIVE PCT FREQ OF RANGES OF VSBY (NM) AND/OR  
CEILING HGT (FEET, NH >4/8), BY HOUR

HOURL (GMT)	<150 <50YD	<600 <1	<1000 <5	1000+ AND 5+	NH <5/8 AND 5+	TOTAL OBS
00003	.0	2.5	12.6	42.3	45.1	317
06009	.0	1.0	11.8	29.6	58.6	297
12015	.8	1.2	9.6	31.7	58.6	249
18021	1.2	2.4	10.0	38.8	51.2	250
TOT	5	20	124	398	591	1113
PCT	.4	1.8	11.1	35.8	53.1	100.0

TABLE 13

PERCENT FREQUENCY OF RELATIVE HUMIDITY BY TEMP

TEMP F	0-29	30-39	40-49	50-59	60-69	70-79	80-89	90-100	TOTAL OBS	PCT FREQ
68/69	.0	.0	.0	.1	.2	.2	.1	.0	9	.7
60/64	.0	.0	.0	.6	2.1	5.1	7.1	1.7	229	16.5
58/59	.0	.0	.1	1.9	7.7	16.2	24.9	11.3	860	62.1
50/54	.0	.0	.0	1.4	4.0	4.9	5.3	1.8	271	19.6
48/49	.0	.0	.0	.1	.1	.6	.3	.1	15	1.1
TOTAL	0	0	2	58	222	374	522	206	1384	100.0
PCT	.0	.0	.1	4.2	16.0	27.0	37.7	14.9		

TABLE 14

PERCENT FREQUENCY OF WIND DIRECTION BY TEMP

N	NE	E	SE	S	SW	W	NW	VAR	CALM
.1	.1	.1	.0	.1	.2	.1	.0	.0	.0
3.0	2.7	1.2	.0	.8	1.6	3.3	3.0	.0	.3
9.0	8.9	3.4	3.2	7.2	10.4	11.7	8.0	.0	.4
.6	.7	.7	2.0	4.7	7.5	3.0	.4	.0	.1
.0	.0	.0	.1	.2	.6	.2	.0	.0	.0
12.7	12.4	5.4	5.8	12.9	20.1	18.4	11.5	.0	.8

TABLE 15

MEANS, EXTREMES AND PERCENTILES OF TEMP (DEG F) BY HOUR

HOURL (GMT)	MAX	95%	90%	50%	5%	1%	MIN	MEAN	TOTAL OBS
00003	71	64	63	57	52	50	47	57.3	831
06009	72	66	64	58	53	51	49	58.2	526
12015	66	63	61	56	51	48	47	56.2	684
18021	65	62	60	56	51	48	48	55.6	502
TOT	72	64	62	57	52	49	47	56.9	2543

TABLE 16

PERCENT FREQUENCY OF RELATIVE HUMIDITY BY HOUR

HOURL (GMT)	0-29	30-59	60-69	70-79	80-89	90-100	MEAN	TOTAL OBS
00003	.0	5.4	16.5	26.0	35.9	16.2	79	407
06009	.0	6.4	19.1	33.0	32.2	9.3	77	345
12015	.0	2.6	14.4	24.8	40.3	17.9	81	347
18021	.0	2.2	14.7	23.8	42.2	17.2	81	320
TOT	0	60	230	382	532	215	79	1419

## OCTOBER

PERIOD: (PRIMARY) 1912-1971  
(OVER-ALL) 1899-1971

TABLE 17

AREA 0015 AUSTRALIAN BIGHT SW  
35.55 126.5E

PCT FREQ OF AIR TEMPERATURE (DEG F) AND THE OCCURRENCE OF FOG (WITHOUT PRECIPITATION)  
VS AIR-SEA TEMPERATURE DIFFERENCE (DEG F)

AIR-SEA TMP DIF	45 48	49 52	53 56	57 60	61 64	65 68	TOT	W FOG	WD FOG
9/10	.0	.0	.0	.0	.0	.1	1	.0	.1
7/8	.0	.0	.0	.1	.2	.1	6	.0	.4
6	.0	.0	.0	.3	.4	.3	16	.0	1.0
5	.0	.0	.0	.3	.9	.1	21	.0	1.3
4	.0	.0	.1	.8	1.5	.1	29	.0	2.5
3	.0	.0	.3	3.3	1.8	.0	85	.1	8.2
2	.0	.0	.6	5.5	2.0	.1	128	.1	7.9
1	.0	.0	2.1	10.2	1.3	.0	216	.2	13.4
0	.0	.1	4.5	10.7	.3	.0	248	.2	15.4
-1	.0	.1	6.7	7.3	.2	.0	228	.1	14.3
-2	.1	.5	7.9	3.7	.1	.0	193	.1	12.1
-3	.0	.5	7.1	1.8	.0	.0	149	.0	9.4
-4	.2	1.4	4.8	.5	.0	.0	109	.0	6.9
-5	.1	2.0	2.4	.3	.0	.0	74	.1	4.6
-6	.1	1.3	1.1	.1	.0	.0	40	.0	2.5
-7/-8	.2	.8	.4	.1	.0	.0	23	.0	1.5
-9/-10	.0	.4	.1	.0	.0	.0	8	.0	.5
-11/-13	.0	.1	.0	.0	.0	.0	2	.0	.1
TOTAL	9		603	137			1586	13	1573
PCT	.6	7.2	38.0	44.8	8.6	.8	100.0	.8	99.2

PERIOD: (OVER-ALL) 1963-1971

TABLE 18

PCT FREQ OF WIND SPEED (KTS) AND DIRECTION VERSUS SEA HEIGHTS (FT)

HGT	1-3	4-10	11-21	22-33	34-47	48+	PCT	1-3	4-10	11-21	22-33	34-47	48+	PCT
<1	.5	.0	.0	.0	.0	.0	.5	.2	.2	.0	.0	.0	.0	.2
1-2	.3	2.5	.6	.0	.0	.0	3.5	.2	1.6	1.0	.0	.0	.0	2.8
3-4	.0	1.4	1.3	.5	.0	.0	3.2	.0	1.3	3.2	.2	.0	.0	4.7
5-6	.0	.2	2.4	.2	.0	.0	2.8	.2	.5	4.1	.2	.0	.0	5.0
7	.0	.2	1.0	.3	.0	.0	1.5	.0	.0	.5	.2	.0	.0	.9
8-9	.0	.0	.2	.6	.0	.0	.8	.0	.0	.4	.4	.0	.0	.9
10-11	.0	.0	.0	.1	.0	.0	.1	.0	.0	.0	.9	.0	.0	.9
12	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.1	.0	.0	.1
13-16	.0	.0	.0	.1	.0	.0	.1	.0	.0	.0	.2	.2	.0	.4
17-19	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
20-22	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
23-25	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
26-32	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
33-40	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
41-48	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
49-60	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
61-70	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
71-86	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
87+	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
TOT PCT	.8	4.3	5.6	1.8	.0	.0	12.4	.4	3.6	9.5	2.1	.2	.0	15.8

HGT	1-3	4-10	11-21	22-33	34-47	48+	PCT	1-3	4-10	11-21	22-33	34-47	48+	PCT
<1	.0	.6	.0	.0	.0	.0	.6	.2	.2	.0	.0	.0	.0	.4
1-2	.2	.8	.3	.0	.0	.0	1.3	.4	.7	.0	.0	.0	.0	1.2
3-4	.0	.8	.9	.0	.0	.0	1.7	.0	1.1	.7	.0	.0	.0	1.8
5-6	.0	.5	.7	.0	.0	.0	1.2	.0	.6	.6	.0	.0	.0	.8
7	.0	.1	.8	.0	.0	.0	.9	.0	.0	.2	.8	.0	.0	1.1
8-9	.0	.0	.2	.5	.0	.0	.6	.0	.0	.0	.2	.0	.0	.3
10-11	.0	.0	.2	.0	.0	.0	.2	.0	.0	.2	.0	.0	.0	.2
12	.0	.0	.0	.4	.0	.0	.4	.0	.0	.2	.0	.0	.0	.2
13-16	.0	.0	.2	.0	.0	.0	.2	.0	.0	.0	.0	.0	.0	.0
17-19	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
20-22	.0	.0	.0	.2	.0	.0	.2	.0	.0	.0	.2	.2	.0	.3
23-25	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
26-32	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
33-40	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
41-48	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
49-60	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
61-70	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
71-86	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
87+	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
TOT PCT	.2	2.9	3.2	1.0	.0	.0	7.3	.6	2.2	1.9	1.3	.2	.2	6.4

PERIOD: (OVER-ALL) 1963-1971

OCTOBER

AREA 0015 AUSTRALIAN BIGHT SW  
35.5S 126.5E

TABLE 18 (CONT)

PCT FREQ OF WIND SPEED (KTS) AND DIRECTION VERSUS SEA HEIGHTS (FT)

HGT	S							SW							PCT
	1-3	4-10	11-21	22-33	34-47	48+	PCT	1-3	4-10	11-21	22-33	34-47	48+	PCT	
<1	.1	.6	.0	.0	.0	.0	.7	.2	.2	.0	.0	.0	.0	.4	
1-2	.3	2.5	.2	.0	.0	.0	2.9	.2	2.2	.8	.0	.0	.0	3.2	
3-4	.0	3.2	2.0	.6	.0	.0	5.8	.0	2.1	2.2	.0	.0	.0	4.3	
5-6	.0	.2	1.5	.5	.0	.0	2.1	.0	.9	2.9	.7	.0	.0	4.4	
7	.0	.0	1.9	.7	.0	.0	2.6	.0	.2	.8	.9	.0	.0	1.8	
8-9	.0	.0	.2	.3	.1	.0	.6	.0	.0	.0	.2	.0	.0	.2	
10-11	.0	.0	.0	.3	.0	.0	.3	.0	.0	.3	.7	.0	.0	1.0	
12	.0	.0	.0	.2	.0	.0	.2	.0	.0	.0	.7	.1	.0	.7	
13-16	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.2	.0	.2	
17-19	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.2	.0	.0	.2	
20-22	.0	.0	.0	.0	.1	.0	.1	.0	.0	.0	.0	.0	.0	.0	
23-25	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
26-32	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
33-40	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
41-48	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
49-60	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
61-70	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
71-86	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
87+	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
TOT PCT	.4	6.4	5.7	2.5	.2	.0	15.3	.4	5.5	7.0	3.2	.3	.0	16.3	

HGT	W							NW							TOTAL PCT
	1-3	4-10	11-21	22-33	34-47	48+	PCT	1-3	4-10	11-21	22-33	34-47	48+	PCT	
<1	.5	.8	.0	.0	.0	.0	1.2	.2	.5	.0	.0	.0	.0	.7	
1-2	.0	3.4	.7	.0	.0	.0	4.0	.3	2.9	.3	.0	.0	.0	3.6	
3-4	.0	2.4	1.4	.0	.0	.0	3.7	.0	.9	1.0	.0	.0	.0	1.9	
5-6	.0	.2	2.0	.2	.0	.0	2.4	.0	.2	1.5	.5	.0	.0	2.2	
7	.0	.0	1.0	1.1	.0	.0	2.1	.0	.0	.7	.2	.0	.0	.9	
8-9	.0	.1	.2	.0	.0	.0	.3	.0	.0	.0	.2	.0	.0	.2	
10-11	.0	.0	.0	.2	.0	.0	.2	.0	.0	.0	.0	.0	.0	.0	
12	.0	.0	.0	.3	.6	.0	.9	.0	.0	.0	.2	.2	.0	.3	
13-16	.0	.0	.0	.2	.0	.0	.2	.0	.0	.0	.0	.0	.0	.0	
17-19	.0	.0	.0	.4	.0	.0	.4	.0	.0	.0	.1	.0	.0	.1	
20-22	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
23-25	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
26-32	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
33-40	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
41-48	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
49-60	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
61-70	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
71-86	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
87+	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
TOT PCT	.5	6.9	5.2	2.3	.6	.0	15.4	.5	4.6	3.6	1.1	.2	.0	10.0	98.8

WIND SPEED (KTS) VS SEA HEIGHT (FT)

HGT	0-3	4-10	11-21	22-33	34-47	48+	PCT	TOT OBS
<1	3.0	3.4	.0	.0	.0	.0	6.4	
1-2	1.8	15.7	3.9	.0	.0	.0	22.5	
3-4	.0	13.0	12.5	1.3	.0	.0	26.8	
5-6	.3	2.8	15.6	2.1	.0	.0	20.9	
7	.0	.5	7.1	4.1	.0	.0	11.7	
8-9	.0	.2	1.1	2.3	.2	.0	3.8	
10-11	.0	.0	.7	2.1	.0	.0	2.8	
12	.0	.0	.2	1.8	.8	.0	2.8	
13-16	.0	.0	.2	.5	.3	.0	1.0	
17-19	.0	.0	.0	.7	.0	.0	.7	
20-22	.0	.0	.0	.3	.3	.0	.7	
23-25	.0	.0	.0	.0	.0	.0	.0	
26-32	.0	.0	.0	.0	.0	.0	.0	
33-40	.0	.0	.0	.0	.0	.2	.2	
41-48	.0	.0	.0	.0	.0	.0	.0	
49-60	.0	.0	.0	.0	.0	.0	.0	
61-70	.0	.0	.0	.0	.0	.0	.0	
71-86	.0	.0	.0	.0	.0	.0	.0	
87+	.0	.0	.0	.0	.0	.0	.0	
TOT PCT	5.1	35.6	41.2	15.3	1.6	.2	100.0	609

PERIOD: (OVER-ALL) 1949-1971

TABLE 19

PERCENT FREQUENCY OF WAVE HEIGHT (FT) VS WAVE PERIOD (SECONDS)

PERIOD (SEC)	<1	1-2	3-4	5-6	7	8-9	10-11	12	13-16	17-19	20-22	23-25	26-32	33-40	41-48	49-60	61-70	71-86	87+	TOTAL	MEAN HGT
<6	1.0	3.5	5.7	4.4	1.7	1.2	.6	.1	.0	.2	.0	.0	.0	.0	.0	.0	.0	.0	.0	172	4
6-7	.0	.4	3.1	6.6	5.4	4.7	3.4	.7	1.5	.3	.4	.0	.0	.0	.0	.0	.0	.0	.0	250	7
8-9	.0	.4	1.4	3.2	4.7	4.4	2.8	2.3	2.1	.7	.5	.0	.0	.1	.0	.0	.0	.0	.0	213	9
10-11	.0	.1	.4	.7	2.6	2.8	2.2	2.6	1.7	.3	.3	.0	.0	.0	.0	.0	.0	.0	.0	124	10
12-13	.0	.0	.2	.0	.9	1.2	1.5	.5	.5	.1	.3	.0	.0	.0	.0	.0	.0	.0	.0	43	10
>13	.0	.0	.0	.1	.2	.6	.4	.9	.5	.0	.2	.1	.4	.0	.0	.0	.0	.0	.0	33	13
INDET	.6	.6	1.0	1.3	1.6	1.7	1.0	.6	.6	.2	.1	.3	.0	.0	.0	.0	.0	.0	.0	91	8
TOTAL	15	48	110	153	160	155	112	73	66	18	18	4	4	1	.0	.0	.0	.0	.0	937	
PCT	1.6	5.1	11.7	16.3	17.1	16.5	12.0	7.8	7.0	1.9	1.9	.4	.4	.1	.0	.0	.0	.0	.0	100.0	

PERIOD: (PRIMARY) 1912-1969  
(OVER-ALL) 1857-1969

# NOVEMBER

AREA 0015 AUSTRALIAN BIGHT SW  
35.65 126.5E

TABLE 1

## PERCENT FREQUENCY OF WEATHER OCCURRENCE BY WIND DIRECTION

WIND DIR	PRECIPITATION TYPE							OTHER WEATHER PHENOMENA						
	RAIN	RAIN SHWR	DRZL	FRZG PCPN	SNOW	OTHER FRZN PCPN	HAIL	PCPN AT DB TIME	PCPN PAST HOUR	THOR LTNG	FGG WD PCPN	FGG WD PCPN PAST HR	SMOKE HAZE	SPRAY BLWG DUST SIG WFA
N	2.9	1.7	.5	.0	.0	.0	.0	5.2	.9	1.9	1.4	.0	1.4	.0 90.5
NE	2.8	.7	.1	.0	.0	.0	.0	3.6	1.2	2.0	.4	.0	2.4	.0 91.7
E	3.6	1.0	.0	.0	.0	.0	.0	4.6	1.6	1.3	1.5	.0	.7	.0 90.6
SE	2.8	2.8	2.8	.0	.0	.0	.0	8.3	.6	.0	1.1	.0	.0	.0 90.0
S	1.6	2.5	.7	.0	.0	.0	.0	4.8	.3	.9	.9	.0	.0	.0 93.1
SW	1.3	3.9	1.3	.0	.0	.0	.0	6.5	1.8	.8	.6	.0	.3	.0 90.4
W	2.0	4.7	1.9	.0	.0	.0	.0	8.6	2.1	1.0	.7	.0	.3	.0 87.6
NW	4.1	1.4	1.4	.0	.0	.0	.0	6.9	1.4	.5	.0	.0	.0	.0 91.7
VAR	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0 .0
CALM	2.7	.0	.0	.0	.0	.0	.0	2.7	2.7	.0	.0	.0	.0	.0 94.6
TOT PCT	2.4	2.6	1.0	.0	.0	.0	.0	6.0	1.4	1.1	.8	.0	.6	.0 90.6
TOT OBS:	1569													

TABLE 2

## PERCENT FREQUENCY OF WEATHER OCCURRENCE BY HOUR

HOUR (GMT)	PRECIPITATION TYPE							OTHER WEATHER PHENOMENA						
	RAIN	RAIN SHWR	DRZL	FRZG PCPN	SNOW	OTHER FRZN PCPN	HAIL	PCPN AT DB TIME	PCPN PAST HOUR	THOR LTNG	FGG WD PCPN	FGG WD PCPN PAST HR	SMOKE HAZE	SPRAY BLWG DUST SIG WFA
00003	2.2	2.9	.4	.0	.0	.0	.0	5.5	1.3	.0	.9	.0	.7	.0 91.6
06009	1.3	2.8	1.0	.0	.0	.0	.0	5.1	1.0	.0	.8	.0	1.5	.0 91.6
12015	2.7	2.2	1.3	.0	.0	.0	.0	6.2	1.1	2.4	.7	.0	.2	.0 90.5
18021	3.5	2.3	2.0	.0	.0	.0	.0	7.8	2.0	1.7	.6	.0	.0	.0 88.7
TOT PCT	2.4	2.6	1.2	.0	.0	.0	.0	6.1	1.3	1.0	.7	.0	.6	.0 90.7
TOT OBS:	1641													

TABLE 3

## PERCENTAGE FREQUENCY OF WIND DIRECTION BY SPEED AND BY HOUR

WIND DIR	WIND SPEED (KNOTS)							48+	TOTAL OBS	PCT FREQ	MEAN SPD	HOUR (GMT)							
	0-3	4-10	11-21	22-33	34-47	00	03					06	09	12	15	18	21		
N	.4	4.0	4.3	1.1	.1	*		9.9	13.1	12.7	10.6	10.9	8.3	7.7	10.2	8.0	9.5		
NE	.8	4.3	6.9	1.6	.1	*		13.7	13.5	14.9	15.2	14.1	17.3	11.2	10.2	14.8	13.5		
E	.6	4.1	4.8	.4	.0	.0		9.9	11.4	9.6	10.4	9.9	11.1	10.9	9.6	8.3	10.2		
SE	.4	2.9	2.2	.2	.1	.0		5.8	10.9	6.5	5.4	4.2	3.2	5.6	4.9	8.4	6.5		
S	1.1	6.1	4.3	1.0	.6	*		13.2	12.3	10.2	11.1	13.8	9.2	14.9	16.3	14.8	15.5		
SW	.7	6.4	9.6	4.0	.5	*		21.1	15.1	19.2	21.7	18.7	22.7	21.7	22.5	23.1	23.3		
W	1.2	5.0	6.9	3.8	.4	.1		17.4	15.2	17.6	15.1	19.0	20.3	18.7	19.3	13.7	15.7		
NW	.3	2.8	2.6	.7	.1	*		6.5	12.3	7.4	9.4	7.5	7.1	5.0	4.1	6.0	4.9		
VAR	.0	.0	.0	.0	.0	.0		.0	.0	.0	.0	.0	.0	.0	.0	.0	.0		
CALM	2.4							2.4	.1	1.8	1.2	2.0	.8	4.2	2.9	3.0	.8		
TOT OBS	175	806	938	289	40	6	2254		13.2		444	257	355	133	474	172	301	118	
TOT PCT	7.8	35.8	41.6	12.8	1.8	.3		100.0			100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	

TABLE 3A

WIND DIR	WIND SPEED (KNOTS)				41+	TOTAL OBS	PCT FREQ	MEAN SPD	HOUR (GMT)			
	0-6	7-16	17-27	28-40					00	03	06	18
N	1.9	5.1	2.5	.3	.1		9.9	13.1	11.9	10.2	8.4	8.4
NE	2.0	7.5	3.8	.4	*		13.7	13.5	15.0	15.0	11.0	14.4
E	2.4	5.5	2.0	.1	.0		9.9	11.4	9.9	10.2	10.5	8.8
SE	1.5	3.5	.7	.1	.1		5.8	10.9	6.1	3.9	5.5	7.9
S	3.9	5.9	2.4	.8	.2		13.2	12.3	10.6	12.6	15.2	15.0
SW	3.3	9.2	6.8	1.7	.2		21.1	15.1	20.1	19.8	21.9	23.2
W	3.3	7.0	5.3	1.6	.2		17.4	15.2	16.7	19.4	18.9	14.3
NW	1.6	3.4	1.4	.1	*		6.5	12.3	8.1	7.4	4.8	5.7
VAR	.0	.0	.0	.0	.0		.0	.0	.0	.0	.0	.0
CALM	2.4						2.4	.1	1.6	1.6	3.9	2.4
TOT OBS	502	1057	562	115	18	2254		13.2	701	488	646	419
TOT PCT	22.3	46.9	24.9	5.1	.8		100.0		100.0	100.0	100.0	100.0

# NOVEMBER

PERIOD: (PRIMARY) 1912-1969  
(OVER-ALL) 1857-1969

AREA 0015 AUSTRALIAN BIGHT SW  
35.65 126.5E

TABLE 4

PERCENTAGE FREQUENCY OF WIND SPEED BY HOUR (GMT)

HOUR	CALM	WIND SPEED (KNOTS)				48+	MEAN	PCT FREQ	TOTAL OBS	
		1-3	4-10	11-21	22-33					34-47
00003	1.6	5.4	34.8	42.5	13.7	1.9	.1	13.5	100.0	701
00009	1.6	4.1	34.2	43.2	15.0	1.6	.2	13.7	100.0	488
12015	3.9	5.7	36.2	41.0	11.0	1.9	.3	12.7	100.0	646
18021	2.4	6.4	38.2	39.1	11.7	1.7	.5	12.8	100.0	419
TOT	54	122	805	938	289	40	6	13.2		2254
PCT	2.4	5.4	35.7	41.6	12.8	1.8	.3	100.0		

TABLE 5

PCT FREQ OF TOTAL CLOUD AMOUNT (EIGHTHS)  
BY WIND DIRECTION

WIND DIR	0-2	3-4	5-7	8 & OBSCD	TOTAL OBS	MEAN CLOUD COVER
N	3.7	1.5	2.4	1.9		4.0
NE	3.9	2.5	4.7	2.8		4.5
E	1.9	1.4	3.9	3.0		5.3
SE	1.1	.9	2.0	2.0		5.4
S	3.0	2.3	5.0	2.4		4.9
SW	4.0	4.0	8.0	3.1		4.9
W	5.4	3.7	6.1	3.5		4.4
NW	2.5	1.4	2.3	.9		4.1
VAR	.0	.0	.0	.0		.0
CALM	1.2	.3	.6	.5		3.8
TOT OBS	269	181	353	202	1005	4.7
TOT PCT	26.8	18.0	35.1	20.1	100.0	

TABLE 6

PERCENTAGE FREQUENCY OF CEILING HEIGHTS (FT, NH >4/8)  
AND OCCURRENCE OF NH <5/8 BY WIND DIRECTION

000	150	300	600	1000	2000	3500	5000	6500	8000+	NH <5/8 ANY HGT	TOTAL OBS
149	299	599	999	1999	3499	4999	6499	7999			
.0	.0	.3	.5	1.2	.3	.2	.1	.1	.2	6.5	
.0	.0	.2	.8	1.9	.9	.8	.2	.1	.1	8.7	
.0	.0	.0	.7	1.7	1.8	.9	.2	*	.0	5.0	
.0	.0	.9	1.0	.7	.4	.1	.2	.1	.2	2.5	
.0	.1	.1	.6	2.0	1.4	1.1	.4	.0	.1	6.9	
.0	*	.1	.9	2.5	2.9	1.3	.4	.1	.0	10.9	
.0	.0	.1	1.4	1.7	1.8	1.1	.4	.1	.0	12.0	
.0	.0	.1	.3	.5	.5	.3	*	.0	.0	5.2	
.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
.0	.0	.0	.1	.3	.1	.0	.0	.1	.1	1.9	
.0	1	9	63	129	105	62	21	8	7	400	1005
.0	.1	.9	6.3	12.8	10.4	6.2	2.1	.8	.7	59.7	100.0

TABLE 7

CUMULATIVE PCT FREQ OF SIMULTANEOUS OCCURRENCE  
OF CEILING HEIGHT (NH >4/8) AND VSBY (NM)

CEILING (FEET)	VSBY (NM)							
	>10	>5	>2	>1	>1/2	>1/4	>50YD	>0
>6500	1.0	1.5	1.5	1.5	1.5	1.5	1.5	1.5
>6000	2.9	3.6	3.7	3.7	3.7	3.7	3.7	3.7
>5500	8.0	9.7	10.0	10.1	10.1	10.1	10.1	10.1
>5000	17.1	20.0	20.4	20.5	20.5	20.5	20.5	20.5
>4500	27.8	32.7	33.2	33.4	33.4	33.4	33.4	33.4
>4000	33.0	38.7	39.3	39.5	39.5	39.5	39.5	39.5
>3500	33.4	39.6	40.2	40.4	40.4	40.4	40.4	40.4
>3000	33.4	39.7	40.3	40.5	40.5	40.5	40.5	40.5
>2500	33.4	39.7	40.3	40.5	40.5	40.5	40.5	40.5
TOTAL	345	410	416	418	418	418	418	418

TOTAL NUMBER OF OBS: 1033

PCT FREQ NH <5/8: 59.5

TABLE 7A

PERCENTAGE FREQ OF LOW CLOUDS (EIGHTHS)

0	1	2	3	4	5	6	7	8	OBSCD	TOTAL OBS
14.4	13.0	10.9	9.5	9.7	5.8	8.3	11.8	16.6	.0	1119



NOVEMBER

PERIOD: (PRIMARY) 1912-1969  
(OVER-ALL) 1857-1969

AREA 0015 AUSTRALIAN BIGHT SW  
35.0S 126.5E

TABLE 8

PERCENT FREQ OF WIND DIRECTION VS OCCURRENCE OR NON-OCCURRENCE OF  
PRECIPITATION WITH VARYING VALUES OF VISIBILITY

VSBY (NM)		N	NE	E	SE	S	SW	W	NW	VAR	CALM	PCT	TOTAL OBS
<1/2	PCP	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
	NO PCP	.1	*	*	.1	.0	.0	.0	.0	.0	.0	.0	.2
	TOT %	.1	*	*	.1	.0	.0	.0	.0	.0	.0	.0	.2
1/2<1	PCP	.1	.0	.0	.0	.0	.0	.1	.0	.0	.0	.0	.1
	NO PCP	.0	.0	.0	.0	.1	.1	.0	.0	.0	.0	.0	.2
	TOT %	.1	.0	.0	.0	.1	.1	.1	.0	.0	.0	.0	.3
1<2	PCP	.0	.0	.0	.0	.1	.0	.0	.0	.0	.0	.0	.1
	NO PCP	.0	.1	.0	.1	*	.1	.0	.0	.0	.0	.0	.3
	TOT %	.0	.1	.0	.1	.1	.1	.0	.0	.0	.0	.0	.3
2<5	PCP	.0	.1	.0	.2	.2	.0	.0	.0	.0	.0	.0	.4
	NO PCP	.0	.0	.1	.0	.1	.0	.0	.0	.0	.0	.1	.3
	TOT %	.0	.1	.1	.2	.3	.0	.0	.0	.0	.0	.1	.7
5<10	PCP	.2	.3	.3	.3	.4	1.0	1.0	.4	.0	.1	3.9	
	NO PCP	3.2	3.9	3.1	1.7	4.2	5.9	5.3	2.1	.0	.3	29.5	
	TOT %	3.3	4.1	3.4	1.9	4.5	6.9	6.3	2.5	.0	.3	33.4	
10+	PCP	.2	.1	.2	.1	.3	.5	.1	.0	.0	.0	1.5	
	NO PCP	5.6	8.8	6.0	3.4	8.9	12.6	11.9	4.4	.0	2.0	63.6	
	TOT %	5.8	9.0	6.1	3.5	8.9	12.9	12.4	4.5	.0	2.0	65.1	
TOT OBS													1568
TOT PCT													9.3 13.3 9.7 5.7 14.0 19.9 18.8 7.0 .0 2.4 100.0

TABLE 9

PERCENT FREQ OF WIND DIRECTION VS WIND SPEED  
WITH VARYING VALUES OF VISIBILITY

VSBY (NM)	SPD KTS	N	NE	E	SE	S	SW	W	NW	VAR	CALM	PCT	TOTAL OBS
<1/2	0-3	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
	4-10	.1	.0	.0	.1	.0	.0	.0	.0	.0	.0	.1	.1
	11-21	.0	*	*	.0	.0	.0	.0	.0	.0	.0	.1	.1
	22+	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
	TOT %	.1	*	*	.1	.0	.0	.0	.0	.0	.0	.2	
1/2<1	0-3	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
	4-10	.0	.0	.0	.0	.1	*	.0	.0	.0	.0	.1	.1
	11-21	.1	.0	.0	.0	.0	.0	.1	.0	.0	.0	.1	.1
	22+	.0	.0	.0	.0	*	*	.0	.0	.0	.0	.1	.1
	TOT %	.1	.0	.0	.0	.1	.1	.1	.0	.0	.0	.3	
1<2	0-3	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
	4-10	*	.1	.0	.0	.0	.1	.0	.0	.0	.0	.2	.2
	11-21	.0	.0	.1	.0	.0	.0	.0	.0	.0	.0	.1	.1
	22+	.0	.0	.0	.1	.1	.1	.0	.0	.0	.0	.2	.2
	TOT %	*	.1	.1	.1	.1	.1	.0	.0	.0	.0	.4	
2<5	0-3	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
	4-10	.0	.1	.1	.1	.1	.1	*	.0	.0	.0	.4	.4
	11-21	.0	.0	.1	*	.1	.0	.0	.0	.0	.0	.2	.2
	22+	.0	.0	.1	.1	.1	.1	.0	.0	.0	.0	.3	.3
	TOT %	.0	.1	.2	.1	.3	.1	*	.0	.0	.1	.9	
5<10	0-3	.2	.1	.1	.2	.6	.4	1.0	.2	.0	.3	3.0	
	4-10	.9	1.2	1.5	.7	1.4	1.8	1.5	.8	.0	.0	9.8	
	11-21	1.6	2.1	1.7	.9	1.8	2.4	1.7	.9	.0	.0	13.1	
	22+	.3	.5	.1	*	.4	1.8	1.7	.4	.0	.0	5.2	
	TOT %	3.1	3.9	3.4	1.8	4.2	6.4	5.8	2.3	.0	.3	31.1	
10+	0-3	.3	.6	.5	.1	.7	.4	.3	.2	.0	1.8	4.9	
	4-10	2.6	2.8	2.7	2.0	4.7	4.6	3.6	2.1	.0	.0	25.1	
	11-21	2.8	5.0	3.5	1.6	3.0	6.2	5.5	1.9	.0	.0	29.5	
	22+	.7	1.0	.2	.2	.5	1.9	2.9	.3	.0	.0	7.7	
	TOT %	6.4	9.4	6.8	4.0	8.8	13.0	12.3	4.5	.0	1.8	67.2	
TOT OBS													1712
TOT PCT													9.6 13.5 10.5 6.1 13.5 19.6 18.3 6.8 .0 2.2 100.0

## NOVEMBER

PERIOD: (PRIMARY) 1912-1949  
(OVER-ALL) 1857-1949

AREA 0015 AUSTRALIAN BIGHT SW  
35.6S 126.5E

TABLE 10

PERCENT FREQUENCY OF CEILING HEIGHTS (FEET, NH >4/8) AND  
OCCURRENCE OF NH <5/8 BY HOUR

HOURL (GMT)	000 149	150 299	300 599	600 999	1000 1999	2000 3499	3500 4999	5000 6499	6500 7999	8000+	TOTAL	NH <5/8 ANY HGT	TOTAL OBS
00003	.0	.0	1.1	7.1	17.8	11.9	7.1	1.5	1.1	1.1	48.7	51.3	269
06009	.0	.0	.3	6.1	8.9	9.9	5.1	3.1	.0	1.0	34.5	65.5	293
12015	.0	.0	.4	5.7	8.4	8.0	6.9	2.3	1.5	.8	34.0	66.0	262
18021	.0	.4	1.7	4.6	16.0	10.9	5.9	1.3	.4	.0	41.2	58.8	238
TOT	0	1	9	63	134	108	66	22	8	8	419	643	1062
PCT	.0	.1	.8	5.9	12.6	10.2	6.2	2.1	.8	.8	39.5	60.5	100.0

TABLE 11

PERCENT FREQUENCY VSBY (NM) BY HOUR

HOURL (GMT)	<1/2	1/2<1	1<2	2<5	5<10	10+	TOTAL OBS
00003	.2	.2	.4	.4	36.7	62.0	498
06009	.2	.2	.5	1.2	27.4	70.4	419
12015	.2	.6	.4	1.0	34.7	63.1	501
18021	.0	.0	.3	.8	27.3	71.6	366
TOT	3	5	7	15	572	1182	1784
PCT	.2	.3	.4	.8	32.1	66.3	100.0

TABLE 12

CUMULATIVE PCT FREQ OF RANGES OF VSBY (NM) AND/OR  
CEILING HGT (FEET, NH >4/8) BY HOUR

HOURL (GMT)	<150 <500	<600 <1	<1000 <5	1000+ AND 5+	NH <5/8 AND 5+	TOTAL OBS
00003	.0	1.1	8.6	40.6	50.8	266
06009	.0	.4	7.0	28.5	64.4	284
12015	.0	.4	7.4	27.3	65.2	256
18021	.0	2.2	7.9	34.8	57.3	227
TOT	0	10	80	338	615	1033
PCT	.0	1.0	7.7	32.7	59.5	100.0

TABLE 13

PERCENT FREQUENCY OF RELATIVE HUMIDITY BY TEMP

TEMP F	0-29	30-39	40-49	50-59	60-69	70-79	80-89	90-100	TOTAL OBS	PCT FREQ
70/74	.0	.0	.0	.2	.2	.2	.0	.0	8	.6
65/69	.0	.0	.0	.2	1.0	1.7	1.5	.3	61	4.8
60/64	.0	.0	.2	1.3	4.4	8.6	12.9	4.2	403	31.6
55/59	.0	.0	.1	3.1	13.1	17.1	15.8	6.1	705	55.3
50/54	.0	.0	.1	.5	2.1	2.4	1.8	.7	98	7.7
45/49	.0	.0	.0	.0	.0	.0	.0	.1	1	.1
TOTAL	0	0	4	69	266	384	407	146	1276	100.0
PCT	.0	.0	.3	5.4	20.8	30.1	31.9	11.4		

TABLE 14

PERCENT FREQUENCY OF WIND DIRECTION BY TEMP

N	NE	E	SE	S	SW	W	NW	VAR	CALM
.1	.1	.1	.0	.1	*	.1	*	.0	.0
.9	.7	.7	.1	.4	.5	1.0	.4	.0	.0
4.2	5.9	3.1	1.4	2.2	4.4	5.7	4.1	.0	.5
4.0	5.6	5.2	4.0	9.5	11.8	10.4	2.6	.0	2.1
.1	.4	.2	.5	2.2	2.8	1.2	.2	.0	.0
.0	.0	.0	.0	.0	.0	.0	.1	.0	.0
9.4	12.7	9.3	6.1	14.4	19.6	18.5	7.4	.0	2.7

TABLE 15

MEANS, EXTREMES AND PERCENTILES OF TEMP (DEG F) BY HOUR

HOURL (GMT)	MAX	99%	95%	50%	5%	1%	MIN	MEAN	TOTAL OBS
00003	75	69	65	59	55	52	50	59.6	695
06009	71	70	66	60	55	54	51	60.5	476
12015	68	65	63	58	53	52	50	57.8	655
18021	67	64	62	57	52	51	48	57.1	434
TOT	75	68	64	59	53	52	48	58.8	2260

TABLE 16

PERCENT FREQUENCY OF RELATIVE HUMIDITY BY HOUR

HOURL (GMT)	0-29	30-59	60-69	70-79	80-89	90-100	MEAN	TOTAL OBS
00003	.0	7.5	21.4	28.7	34.8	7.5	76	345
06009	.0	8.7	27.1	31.9	25.6	6.6	74	332
12015	.0	3.1	19.0	28.7	34.7	14.5	79	352
18021	.0	3.4	16.6	31.4	30.3	18.3	79	290
TOT	0	76	279	397	415	152	77	1319

NOVEMBER

PERIOD: (PRIMARY) 1912-1969  
(OVER-ALL) 1857-1969

AREA 0015 AUSTRALIAN BIGHT SW  
35.6S 126.5E

TABLE 17

PCT FREQ OF AIR TEMPERATURE (DEG F) AND THE OCCURRENCE OF FOG (WITHOUT PRECIPITATION)  
VS AIR-SEA TEMPERATURE DIFFERENCE (DEG F)

AIR-SEA TMP DIF	49 52	53 56	57 60	61 64	65 68	69 72	73 76	TOT	W FOG	WD FOG
14/16	.0	.0	.0	.0	.0	.0	.1	1	.0	.1
11/13	.0	.0	.0	.0	.0	.0	.1	1	.0	.1
9/10	.0	.0	.0	.1	.1	.3	.0	7	.0	.5
7/8	.0	.0	.0	.1	.5	.2	.0	11	.0	.8
6	.0	.0	.1	.1	.8	.1	.0	14	.0	1.0
5	.0	.0	.3	.4	.9	.1	.0	23	.0	1.7
4	.0	.0	.4	2.0	.8	.0	.0	43	.0	3.1
3	.0	.1	.7	3.3	.7	.0	.0	65	.0	4.7
2	.1	.1	3.3	4.4	.4	.0	.0	113	.1	8.2
1	.0	.6	7.0	6.0	.1	.0	.0	189	.0	13.8
0	.0	1.1	9.5	2.8	.1	.1	.0	186	.1	13.4
-1	.0	2.3	12.5	1.6	.0	.0	.0	225	.1	16.3
-2	.1	5.2	8.3	.7	.0	.0	.0	197	.3	14.1
-3	.5	4.6	4.3	.1	.0	.0	.0	131	.0	9.5
-4	.5	3.5	1.7	.2	.0	.0	.0	81	.0	5.9
-5	.4	2.2	.7	.0	.0	.0	.0	45	.1	3.1
-6	.1	1.0	.2	.0	.0	.0	.0	19	.1	1.3
-7/-8	.1	.8	.2	.0	.0	.0	.0	15	.0	1.1
-9/-10	.2	.0	.0	.0	.0	.0	.0	3	.0	.2
-11/-13	.2	.1	.0	.0	.0	.0	.0	4	.0	.3
TOTAL	31	294	676	299	61	10	2	1373	11	1352
PCT	2.3	21.4	49.2	21.8	4.4	.7	.1	100.0	.8	99.2

PERIOD: (OVER-ALL) 1963-1969

TABLE 18

PCT FREQ OF WIND SPEED (KTS) AND DIRECTION VERSUS SEA HEIGHTS (FT)

HGT	1-3	4-10	11-21	22-33	34-47	48+	PCT	1-3	4-10	11-21	22-33	34-47	48+	PCT
<1	.3	.3	.0	.0	.0	.0	.7	.4	.6	.0	.0	.0	.0	.9
1-2	.1	2.3	.3	.0	.0	.0	2.7	.2	3.0	.6	.0	.0	.0	3.8
3-4	.0	.9	1.2	.0	.0	.0	2.1	.0	1.0	3.6	.0	.0	.0	4.6
5-6	.0	.6	2.5	.0	.0	.0	3.2	.0	.6	3.4	.1	.0	.0	4.1
7	.0	.0	.3	.1	.0	.0	1.4	.0	.0	.5	.2	.0	.0	.7
8-9	.0	.0	.0	.0	.0	.0	.5	.0	.0	.0	.6	.0	.0	.2
10-11	.0	.0	.3	.0	.0	.0	.3	.0	.0	.0	.2	.0	.0	.2
12	.0	.0	.0	.0	.0	.0	.0	.0	.0	.2	.0	.0	.0	.2
13-16	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
17-19	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
20-22	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
23-25	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
26-32	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
33-40	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
41-48	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
49-60	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
61-70	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
71-86	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
87+	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
TOT PCT	.5	4.1	5.9	.3	.0	.0	10.8	.6	5.1	8.3	1.0	.2	.0	15.1

HGT	1-3	4-10	11-21	22-33	34-47	48+	PCT	1-3	4-10	11-21	22-33	34-47	48+	PCT
<1	.3	.5	.0	.0	.0	.0	.8	.0	.2	.0	.0	.0	.0	.2
1-2	.0	2.1	.4	.0	.0	.0	2.5	.0	2.9	.2	.0	.0	.0	3.2
3-4	.2	1.7	3.5	.0	.0	.0	5.4	.0	1.5	1.5	.0	.0	.0	3.0
5-6	.0	.0	2.4	.3	.0	.0	2.7	.0	.0	.4	.0	.0	.0	.4
7	.0	.0	.3	.0	.0	.0	.3	.0	.0	.3	.0	.0	.0	.3
8-9	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
10-11	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
12	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
13-16	.0	.0	.0	.0	.0	.0	.0	.0	.0	.2	.0	.0	.0	.2
17-19	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
20-22	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
23-25	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
26-32	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
33-40	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
41-48	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
49-60	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
61-70	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
71-86	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
87+	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
TOT PCT	.5	4.2	6.7	.3	.0	.0	11.6	.0	4.7	2.5	.0	.0	.0	7.2

PERIOD: (OVER-ALL) 1963-1969

NOVEMBER

AREA 0015 AUSTRALIAN BIGHT SW  
35.65 126.3E

TABLE 18 (CONT)

PCT FREQ OF WIND SPEED (KTS) AND DIRECTION VERSUS SEA HEIGHTS (FT)

HGT	S							PCT	SW							PCT
	1-3	4-10	11-21	22-33	34-47	48+			1-3	4-10	11-21	22-33	34-47	48+		
<1	.5	.6	.0	.0	.0	.0		1.1	.6	.6	.0	.0	.0	.0		1.1
1-2	.5	3.0	.2	.0	.0	.0		3.6	.2	1.8	.2	.0	.0	.0		2.1
3-4	.0	2.5	1.2	.0	.0	.0		3.8	.0	1.8	1.7	.3	.0	.0		3.8
5-6	.0	.8	2.2	.1	.0	.0		3.1	.0	.2	3.3	1.2	.0	.0		4.6
7	.0	.2	.4	.0	.0	.0		.6	.0	.0	1.5	1.2	.0	.0		2.7
8-9	.0	.0	.0	.0	.0	.0		.0	.0	.0	.4	.4	.0	.0		.8
10-11	.1	.0	.0	.0	.0	.0		.1	*	.0	.3	.1	.0	.0		.5
12	.0	.0	.0	.0	.0	.0		.0	.0	.0	.3	.3	.0	.0		.3
13-16	.0	.0	.0	.0	.0	.0		.0	.0	.0	.0	*	.0	.0		.0
17-19	.0	.0	.0	.0	.0	.0		.0	.0	.0	.0	.0	.0	.0		.0
20-22	.0	.0	.0	.0	.0	.0		.0	.0	.0	.0	.0	.0	.0		.0
23-25	.0	.0	.0	.0	.0	.0		.0	.0	.0	.0	.0	.0	.0		.0
26-32	.0	.0	.0	.0	.0	.0		.0	.0	.0	.0	.0	.0	.0		.0
33-40	.0	.0	.0	.0	.0	.0		.0	.0	.0	.0	.0	.0	.0		.0
41-48	.0	.0	.0	.0	.0	.0		.0	.0	.0	.0	.0	.0	.0		.0
49-60	.0	.0	.0	.0	.0	.0		.0	.0	.0	.0	.0	.0	.0		.0
61-70	.0	.0	.0	.0	.0	.0		.0	.0	.0	.0	.0	.0	.0		.0
71-86	.0	.0	.0	.0	.0	.0		.0	.0	.0	.0	.0	.0	.0		.0
87+	.0	.0	.0	.0	.0	.0		.0	.0	.0	.0	.0	.0	.0		.0
TOT PCT	1.1	7.1	4.0	.1	.0	.0		12.3	.8	4.3	7.3	3.5	.0	*		15.9

HGT	W							PCT	NW							PCT	TOTAL PCT
	1-3	4-10	11-21	22-33	34-47	48+			1-3	4-10	11-21	22-33	34-47	48+			
<1	.2	.3	.0	.0	.0	.0		.5	.0	.2	.0	.0	.0	.0		.2	
1-2	.2	1.8	.0	.0	.0	.0		1.9	.0	1.6	.4	.0	.0	.0		2.0	
3-4	.0	1.8	2.4	.5	.0	.0		4.7	.2	.8	1.3	.0	.0	.0		2.3	
5-6	.0	.2	1.8	1.0	.2	.0		3.2	.0	.2	1.1	.3	.0	.0		1.5	
7	.0	.0	1.0	1.0	.0	.0		2.0	.0	.0	*	.0	.0	.0		.0	
8-9	.0	.0	.6	.5	.0	.0		1.1	.0	.0	.0	.0	.0	.0		.0	
10-11	.0	.0	.0	.9	.0	.0		.9	.0	.0	.0	.2	.0	.0		.2	
12	.0	.0	.0	.9	.0	.1		1.0	.0	.0	.0	.0	.0	.0		.0	
13-16	.0	.0	.0	.6	.0	.0		.6	.0	.0	.0	.0	.0	.0		.0	
17-19	.0	.0	.0	.0	.0	.0		.0	.0	.0	.0	.0	.0	.0		.0	
20-22	.0	.0	.0	.0	.2	.0		.2	.0	.0	.0	.0	.0	.0		.0	
23-25	.0	.0	.0	.0	.0	.0		.0	.0	.0	.0	.0	.0	.0		.0	
26-32	.0	.0	.0	.0	.0	.0		.0	.0	.0	.0	.0	.0	.0		.0	
33-40	.0	.0	.0	.0	.0	.0		.0	.0	.0	.0	.0	.0	.0		.0	
41-48	.0	.0	.0	.0	.0	.0		.0	.0	.0	.0	.0	.0	.0		.0	
49-60	.0	.0	.0	.0	.0	.0		.0	.0	.0	.0	.0	.0	.0		.0	
61-70	.0	.0	.0	.0	.0	.0		.0	.0	.0	.0	.0	.0	.0		.0	
71-86	.0	.0	.0	.0	.0	.0		.0	.0	.0	.0	.0	.0	.0		.0	
87+	.0	.0	.0	.0	.0	.0		.0	.0	.0	.0	.0	.0	.0		.0	
TOT PCT	.3	4.0	5.9	5.5	.3	.1		16.2	.2	2.7	2.8	.5	.0	.0		6.2	95.4

WIND SPEED (KTS) VS SEA HEIGHT (FT)

HGT	0-3	4-10	11-21	22-33	34-47	48+	PCT	TOT OBS
<1	7.9	3.4	.0	.0	.0	.0	11.2	
1-2	1.8	18.0	2.2	.0	.0	.0	22.0	
3-4	.3	11.7	16.1	.8	.0	.0	29.0	
5-6	.0	2.5	16.8	2.9	.2	.0	22.3	
7	.0	.2	5.0	2.5	.0	.0	7.7	
8-9	.0	.0	1.3	1.5	.2	.0	3.0	
10-11	.2	.0	.7	1.3	.0	.0	2.2	
12	.0	.0	.2	1.2	.0	.2	1.5	
13-16	.0	.0	.2	.7	.0	.0	.8	
17-19	.0	.0	.0	.0	.0	.0	.0	
20-22	.0	.0	.0	.0	.2	.0	.2	
23-25	.0	.0	.0	.0	.0	.0	.0	
26-32	.0	.0	.0	.0	.0	.0	.0	
33-40	.0	.0	.0	.0	.0	.0	.0	
41-48	.0	.0	.0	.0	.0	.0	.0	
49-60	.0	.0	.0	.0	.0	.0	.0	
61-70	.0	.0	.0	.0	.0	.0	.0	
71-86	.0	.0	.0	.0	.0	.0	.0	
87+	.0	.0	.0	.0	.0	.0	.0	
TOT PCT	10.2	35.7	42.4	10.9	.5	.2	100.0	596

PERIOD: (OVER-ALL) 1949-1969

TABLE 19

PERCENT FREQUENCY OF WAVE HEIGHT (FT) VS WAVE PERIOD (SECONDS)

PERIOD (SEC)	<1	1-2	3-4	5-6	7	8-9	10-11	12	13-16	17-19	20-22	23-25	26-32	33-40	41-48	49-60	61-70	71-86	87+	TOTAL	MEAN HGT
<6	.4	3.4	4.5	3.4	1.6	.1	.6	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	115	4
6-7	.0	.0	3.6	6.1	5.9	2.4	1.8	1.6	1.0	.1	.0	.1	.0	.0	.0	.0	.0	.0	.0	188	7
8-9	.0	.0	1.4	4.7	7.6	3.6	3.1	1.0	1.6	1.3	.4	.0	.0	.0	.0	.0	.0	.0	.0	205	8
10-11	.0	.0	.6	1.9	3.6	3.0	3.1	2.8	1.3	.4	.4	.4	.0	.0	.0	.0	.0	.0	.0	145	9
12-13	.0	.0	.7	.5	.5	1.8	1.1	1.8	1.6	.4	.4	.0	.1	.0	.0	.0	.0	.0	.0	10	10
>13	.0	.0	.0	.4	.2	.7	.1	1.1	1.1	.1	.2	.0	.0	.0	.0	.0	.0	.0	.0	25	11
INDEX	1.2	.6	1.3	1.6	2.9	.7	.4	.4	.1	.1	.2	.1	.0	.0	.0	.0	.0	.0	.0	80	6
TOTAL	13	33	101	184	185	103	85	63	55	20	13	5	1	0	0	0	0	0	0	831	8
PCT	1.6	4.0	12.2	18.5	22.3	12.4	10.2	7.6	6.6	2.4	1.6	.6	.1	.0	.0	.0	.0	.0	.0	100.0	

## DECEMBER

PERIOD: (PRIMARY) 1911-1971  
(OVER-ALL) 1854-1971

AREA 0015 AUSTRALIAN BIGHT SW  
35.6S 126.5E

TABLE 1

## PERCENT FREQUENCY OF WEATHER OCCURRENCE BY WIND DIRECTION

PRECIPITATION TYPE										OTHER WEATHER PHENOMENA						
WIND DIR	RAIN	RAIN SHWR	DRZL	FRZG PCPN	SNOW	OTHER FRZN PCPN	HAIL	PCPN AT DB TIME	PCPN PAST HOUR	THDR LTNG	FGG WD PCPN	FGG WD PCPN PAST HR	SMOKE HAZE	SPRAY BLWG DUST	NO SIG WEA	
N	4.1	4.1	2.2	.0	.0	.0	.0	10.5	.0	5.5	3.3	.0	1.4	.0	80.9	
NE	2.8	2.2	3.0	.0	.0	.0	.0	8.0	.6	4.6	.2	.0	4.4	.0	83.8	
E	2.6	1.6	1.4	.0	.0	.0	.0	5.7	1.6	3.2	2.0	.0	1.8	.0	86.6	
SE	3.1	2.8	2.7	.0	.0	.0	.0	8.5	.6	.7	2.5	.0	1.1	.0	86.6	
S	2.2	.9	1.2	.0	.0	.0	.0	4.3	.9	1.5	2.3	.0	1.3	.0	90.1	
SW	1.1	2.9	2.0	.0	.0	.0	.0	5.9	.7	.7	2.7	.0	.0	.0	90.3	
W	1.3	4.7	.9	.0	.0	.0	.0	6.9	1.6	1.3	.2	.0	.8	.0	89.7	
NW	1.9	1.9	.0	.0	.0	.0	.0	3.7	.0	.9	.0	.0	2.3	.0	93.1	
VAR	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
CALM	.0	.0	11.1	.0	.0	.0	.0	11.1	.0	5.6	11.1	.0	.0	.0	72.2	
TOT PCT	2.1	2.6	1.9	.0	.0	.0	.0	6.6	.9	2.1	1.8	.0	1.5	.0	87.7	
TOT OBS:	1582															

TABLE 2

## PERCENT FREQUENCY OF WEATHER OCCURRENCE BY HOUR

HOUR (GMT)	PRECIPITATION TYPE							OTHER WEATHER PHENOMENA							
	RAIN	RAIN SHWR	DRZL	FRZG PCPN	SNOW	OTHER FRZN PCPN	HAIL	PCPN AT OB TIME	PCPN PAST HOUR	THDR LTNG	FGG WD PCPN	FGG WD PCPN PAST HR	SMOKE HAZE	SPRAY BLWG DUST BLWG SNOW	NO SIG WEA
00603	2.3	3.8	2.3	.0	.0	.0	.0	8.3	.9	1.1	2.3	.0	.9	.0	86.9
06609	2.2	1.4	1.4	.0	.0	.0	.0	5.0	1.1	.0	.8	.0	2.2	.0	90.9
12615	2.6	3.3	1.7	.0	.0	.0	.0	7.6	.7	3.5	1.7	.0	2.0	.0	85.9
18621	1.1	1.4	1.9	.0	.0	.0	.0	4.4	.8	4.2	2.5	.0	.6	.0	88.1
TOT PCT	2.1	2.6	1.8	.0	.0	.0	.0	6.5	.9	2.2	1.8	.0	1.4	.0	87.8
TOT OBS:	1627														

TABLE 3

## PERCENTAGE FREQUENCY OF WIND DIRECTION BY SPEED AND BY HOUR

WIND DIR	WIND SPEED (KNOTS)							TOTAL DBS	PCT FREQ	MEAN SPD	HOUR (GMT)							
	0-3	4-10	11-21	22-33	34-47	48+					00	03	06	09	12	15	18	21
N	.5	2.9	2.7	.4	.1	.0		6.5	11.5		8.9	10.1	6.7	7.7	3.5	3.5	5.4	6.7
NE	.6	3.6	7.6	1.4	.1	.0		13.3	13.7		14.6	13.9	12.9	11.8	12.6	14.2	13.5	10.7
E	.8	6.0	6.3	.5	.0	.0		13.7	11.5		13.2	11.5	11.8	12.9	15.2	14.0	16.7	13.1
SE	.7	5.0	3.7	.6	.1	.0		10.1	11.1		10.2	7.5	12.5	9.6	11.8	8.0	9.6	9.1
S	.7	6.5	5.1	1.0	.2	.1		13.6	12.0		13.4	11.4	11.8	12.5	13.9	16.4	16.5	13.1
SW	.4	8.2	8.0	3.6	.6	.1		20.8	14.8		19.4	17.8	18.9	24.6	22.6	25.8	20.0	21.4
W	.7	5.2	6.3	3.1	.7	.1		16.1	15.4		12.8	20.8	20.4	14.7	17.1	13.2	12.7	15.3
NW	.3	2.2	1.4	.4	.0	.0		4.3	11.2		7.1	5.6	3.4	4.0	2.0	3.5	3.1	7.1
VAR	.0	.0	.0	.0	.0	.0		.0	.0		.0	.0	.0	.0	.0	.0	.0	.0
CALM	1.5							1.5	.0		.5	1.5	1.6	2.2	1.1	1.6	2.4	.0
TOT DBS	138	883	919	242	42	6	2230		13.0		438	273	318	136	136	188	310	125
TOT PCT	6.2	39.6	41.2	10.9	1.9	.3		100.0			100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0

TABLE 3A

WIND DIR	WIND SPEED (KNOTS)					TOTAL DBS	PCT FREQ	MEAN SPD	HOUR (GMT)				
	0-6	7-16	17-27	28-40	41+				00	03	06	09	12
N	1.5	3.5	1.4	.1	.0		6.5	11.5	9.4	7.0	3.6	5.8	
NE	1.8	7.2	3.9	.4	.0		13.3	13.7	14.3	12.6	13.1	12.7	
E	2.9	7.7	3.0	.1	.0		13.7	11.5	12.6	12.1	14.9	15.7	
SE	3.1	4.7	2.2	.2	.0		10.1	11.1	9.1	11.6	10.7	9.5	
S	3.1	7.8	2.5	.5	.1		13.6	12.0	12.6	12.0	14.6	15.5	
SW	3.1	10.1	5.6	1.9	.1		20.8	14.8	18.8	20.6	23.6	20.4	
W	2.6	7.1	4.7	1.4	.2		16.1	15.4	15.9	18.7	15.9	13.7	
NW	1.1	2.3	.8	.1	.0		4.3	11.2	6.5	3.6	2.4	4.3	
VAR	1.5						.0	.0	.0	.0	.0	.0	
CALM	1.5						1.5	.0	.8	1.8	1.3	2.5	
TOT DBS	463	1111	538	107	11	2230		13.0	711	454	629	436	
TOT PCT	20.8	49.8	24.1	4.8	.5		100.0		100.0	100.0	100.0	100.0	



DECEMBER

PERIOD: (PRIMARY) 1911-1971  
(OVER-ALL) 1854-1971

AREA 0015 AUSTRALIAN BIGHT SW  
35.05 126.5E

TABLE 4

PERCENTAGE FREQUENCY OF WIND SPEED BY HOUR (GMT)

HOUR	CALM	1-3	4-10	WIND SPEED (KNOTS)			48+	MEAN	PCT FREQ	TOTAL OBS
				11-21	22-33	34-47				
0000	.8	5.5	39.7	41.4	10.3	2.1	.3	12.9	100.0	711
0600	1.8	4.0	34.0	40.1	12.8	2.2	.2	13.4	100.0	454
1200	1.3	4.0	39.6	41.2	12.1	1.6	.3	13.2	100.0	629
1800	2.5	5.3	40.1	42.2	8.0	1.6	.2	12.3	100.0	436
TOT	33	105	883	919	242	42	6	13.0	100.0	2230
PCT	1.5	4.7	39.6	41.2	10.9	1.9	.3	100.0		

TABLE 5

PCT FREQ OF TOTAL CLOUD AMOUNT (EIGHTHS)  
BY WIND DIRECTION

WIND DIR	0-2	3-4	5-7	8 & OBSCD	TOTAL OBS	MEAN CLOUD COVER
N	1.0	.9	2.6	1.3		5.3
NE	2.9	2.2	4.6	3.3		5.0
E	2.3	1.9	4.6	6.1		5.8
SE	1.3	.9	4.6	5.3		6.2
S	2.5	2.3	5.5	3.6		5.2
SW	2.7	3.5	7.7	4.7		5.3
W	3.5	3.4	6.2	3.3		4.8
NW	.9	.4	1.4	.9		5.0
VAR	.0	.0	.0	.0		.0
CALM	.2	.0	.5	.8		6.6
TOT OBS	167	151	364	283	965	5.4
TOT PCT	17.3	15.6	37.7	29.3	100.0	

TABLE 6

PERCENTAGE FREQUENCY OF CEILING HEIGHTS (FT, NH >4/8)  
AND OCCURRENCE OF NH <5/8 BY WIND DIRECTION

000	150	300	600	1000	2000	3500	5000	6500	8000+	NH <5/8	TOTAL
149	299	599	999	1999	3499	4999	6499	7999		ANY HGT	OBS
.0	.0	.1	.2	1.0	.3	.7	.4	.1	.1	3.0	
.0	.1	.1	1.2	1.7	1.6	.7	.2	.0	.1	7.3	
.0	.0	.1	1.9	3.0	2.6	.5	.4	.1	.1	5.1	
.2	.0	.1	1.3	3.5	1.8	.7	.3	.0	.0	4.3	
.2	.0	.2	.9	3.1	2.0	1.0	.6	.0	.2	5.9	
.1	.0	.0	.9	3.2	1.8	2.2	.4	.3	.1	9.6	
.2	.0	.1	1.2	2.3	1.6	1.2	.1	.0	.0	9.8	
.0	.0	.2	.4	.2	.4	.5	.1	.0	.0	1.8	
.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
.1	.0	.0	.1	.7	.4	.0	.0	.0	.0	.2	
.7	1	7	77	182	121	73	24	5	5	463	965
.7	.1	.7	8.0	18.9	12.5	7.6	2.5	.5	.5	48.0	100.0

TABLE 7

CUMULATIVE PCT FRQ OF SIMULTANEOUS OCCURRENCE  
OF CEILING HEIGHT (NH >4/8) AND VSBY (NM)

CEILING (FEET)	VSBY (NM)							
	>10	>5	>2	>1	>1/2	>1/4	>50YD	>0
>6500	.9	1.0	1.0	1.0	1.0	1.0	1.0	1.0
>4000	3.2	3.4	3.4	3.4	3.4	3.4	3.4	3.4
>3500	9.7	10.8	10.9	10.9	10.9	10.9	10.9	10.9
>2000	19.9	23.0	23.3	23.3	23.3	23.3	23.3	23.3
>1000	35.0	40.8	41.9	41.9	41.9	41.9	41.9	41.9
>400	41.4	48.7	50.3	50.3	50.3	50.3	50.3	50.3
>300	42.0	49.3	50.9	50.9	50.9	51.0	51.0	51.0
>150	42.1	49.4	51.0	51.0	51.0	51.1	51.1	51.1
>0	42.4	49.6	51.3	51.3	51.4	51.5	51.8	51.8
TOTAL	418	490	506	506	507	508	511	511

TOTAL NUMBER OF OBS: 987

PCT FREQ NH <5/8: 48.2

TABLE 7A

PERCENTAGE FREQ OF LOW CLOUDS (EIGHTHS)

0	1	2	3	4	5	6	7	8	OBSCD	TOTAL
6.5	12.0	9.8	9.6	9.3	6.7	9.4	11.3	24.9	.5	1089

PERIOD: (PRIMARY) 1911-1971  
(OVER-ALL) 1854-1971

DECEMBER

AREA 0015 AUSTRALIAN BIGHT SW  
35.65 126.5E

TABLE 8

PERCENT FREQ OF WIND DIRECTION VS OCCURRENCE OR NON-OCCURRENCE OF  
PRECIPITATION WITH VARYING VALUES OF VISIBILITY

VSBY (NM)		N	NE	E	SE	S	SW	W	NW	VAR	CALM	PCT	TOTAL OBS
<1/2	PCP	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
	NO PCP	.0	.0	.1	.2	.0	.0	.0	.0	.0	.1	.4	
	TOT %	.0	.0	.1	.2	.0	.0	.0	.0	.0	.1	.4	
1/2<1	PCP	.0	.0	.0	.0	*	*	.0	.0	.0	.0	.1	
	NO PCP	.3	.0	.1	.1	.3	.3	.1	.0	.0	.0	1.1	
	TOT %	.3	.0	.1	.1	.3	.3	.1	.0	.0	.0	1.1	
1<2	PCP	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
	NO PCP	*	.2	.1	.1	.2	.0	.1	.0	.0	.0	.6	
	TOT %	*	.2	.1	.1	.2	.0	.1	.0	.0	.0	.6	
2<5	PCP	.1	.1	.1	.1	*	*	.1	.0	.0	.0	.4	
	NO PCP	.1	.2	.3	.1	.2	.2	.1	*	.0	.0	1.2	
	TOT %	.2	.2	.3	.3	.3	.2	.1	*	.0	.0	1.6	
5<10	PCP	.4	.9	.6	.6	.4	1.0	.5	.1	.0	.1	4.7	
	NO PCP	1.7	4.6	4.6	3.4	4.3	7.9	4.1	.8	.0	.2	31.7	
	TOT %	2.1	5.5	5.3	4.0	4.8	8.9	4.7	1.0	.0	.3	36.3	
10+	PCP	.2	.2	.1	.2	.1	.2	.4	.0	.0	.1	1.5	
	NO PCP	3.0	8.1	8.5	6.5	8.8	11.2	9.4	2.4	.0	.7	58.4	
	TOT %	3.1	8.2	8.6	6.7	8.9	11.3	9.8	2.4	.0	.8	59.9	
TOT OBS													1582
TOT PCT													5.7 14.2 14.4 11.3 14.4 20.7 14.7 3.4 .0 1.1 100.0

TABLE 9

PERCENT FREQ OF WIND DIRECTION VS WIND SPEED  
WITH VARYING VALUES OF VISIBILITY

VSBY (NM)	SPD KTS	N	NE	E	SE	S	SW	W	NW	VAR	CALM	PCT	TOTAL OBS
<1/2	0-3	.0	.0	.0	.0	.0	.0	.0	.0	.0	.1	.1	
	4-10	*.0	.1	.2	.0	.0	.0	*	.0	.0	.0	.3	
	11-21	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
	22+	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
	TOT %	*.0	.1	.2	.0	.0	.0	*	.0	.1	.4		
1/2<1	0-3	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
	4-10	.1	.0	.1	.1	.1	*	.0	.0	.0	.0	.3	
	11-21	.1	.0	.0	.0	.0	*	.0	.0	.0	.0	.2	
	22+	.1	.0	.0	.0	.1	.2	*	.0	.0	.0	.5	
	TOT %	.3	.0	.1	.1	.3	.3	.1	.0	.0	.0	1.0	
1<2	0-3	.0	.0	.1	.0	.0	.0	.0	.0	.0	.0	.1	
	4-10	.0	.0	.0	.1	.0	.0	.0	.0	.0	.0	.1	
	11-21	*.0	.0	.0	.0	.0	.0	.1	.0	.0	.0	.1	
	22+	.0	.2	.0	.0	.2	.0	.0	.0	.0	.0	.3	
	TOT %	*.2	.1	.1	.2	.0	.1	.0	.0	.0	.0	.6	
2<5	0-3	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
	4-10	.1	.2	.2	.1	.1	.0	.1	.0	.0	.0	.6	
	11-21	.1	.1	.0	.0	*	*	.1	*	.0	.0	.3	
	22+	.0	.0	.1	.1	.2	.2	.0	.0	.0	.0	.6	
	TOT %	.2	.2	.3	.2	.3	.2	.1	*	.0	.0	1.5	
5<10	0-3	.0	.3	.3	.2	.3	.1	.1	.0	.0	.3	1.5	
	4-10	.9	1.3	1.5	1.8	1.7	2.0	1.5	.5	.0	.0	11.1	
	11-21	.9	3.3	2.8	1.5	1.9	3.6	1.5	.4	.0	.0	15.9	
	22+	.2	.5	.2	.2	.3	2.4	1.3	.1	.0	.0	5.2	
	TOT %	2.0	5.3	4.8	3.6	4.3	8.1	4.3	1.0	.0	.3	33.8	
10+	0-3	.5	.3	.3	.4	.4	.4	.5	.3	.0	.8	3.8	
	4-10	1.5	2.5	4.7	3.3	4.5	6.1	3.5	1.8	.0	.0	27.9	
	11-21	1.2	5.1	4.4	2.5	3.4	4.0	4.8	.8	.0	.0	26.9	
	22+	.1	.6	.3	.4	.4	.9	1.4	.2	.0	.0	4.2	
	TOT %	3.4	8.5	9.7	6.6	8.7	11.9	10.2	3.0	.0	.8	62.7	
TOT OBS													1741
TOT PCT													5.9 14.2 15.0 10.8 13.7 20.5 14.7 4.0 .0 1.2 100.0

DECEMBER

PERIOD: (PRIMARY) 1911-1971  
(OVER-ALL) 1854-1971

AREA 0015 AUSTRALIAN BIGHT SW  
35.65 126.5E

TABLE 10

PERCENT FREQUENCY OF CEILING HEIGHTS (FEET, NH >4/8) AND  
OCCURRENCE OF NH <5/8 BY HOUR

HOUR (GMT)	000 149	150 299	300 599	600 999	1000 1999	2000 3499	3500 4999	5000 6499	6500 7999	8000+	TOTAL 54.8	NH <5/8 ANY HGT	TOTAL DBS
00603	.8	.0	1.2	7.2	17.2	14.4	9.6	2.8	.4	1.2	54.8	45.2	250
06609	.7	.0	.4	6.7	16.0	11.5	8.9	2.2	1.1	.4	48.0	52.0	269
12615	.4	.0	.0	10.7	17.4	11.5	5.5	1.6	.0	.4	47.4	52.6	253
18621	.8	.4	1.2	7.8	22.1	10.7	4.9	2.9	.4	.0	51.2	48.8	244
TOT	7	1	7	82	184	122	74	24	5	5	511	505	1016
PCT	.7	.1	.7	8.1	18.1	12.0	7.3	2.4	.5	.5	50.3	49.7	100.0

TABLE 11

PERCENT FREQUENCY VSBY (NM) BY HOUR

HOUR (GMT)	<1/2	1/2<1	1<2	2<5	5<10	10+	TOTAL DBS
00603	.2	1.2	.2	.8	39.4	58.1	497
06609	.3	.8	.8	1.8	28.7	67.7	387
12615	.2	.8	1.2	1.9	38.4	57.6	516
18621	1.0	1.3	.0	1.3	27.2	69.2	386
TOT	7	18	10	26	610	1115	1786
PCT	.4	1.0	.6	1.5	34.2	62.4	100.0

TABLE 12

CUMULATIVE PCT FREQ OF RANGES OF VSBY (NM) AND/OR  
CEILING HGT (FEET, NH >4/8) BY HOUR

HOUR (GMT)	<150 <50VD	<600 <1	<1000 <5	1000+ AND5+	NH <5/8 AND 5+	TOTAL DBS
00603	.8	2.0	10.2	46.1	43.7	245
06609	.8	1.1	10.3	39.2	50.6	263
12615	.4	.4	13.8	35.6	50.6	247
18621	.9	2.6	12.5	42.7	44.8	232
TOT	7	15	115	403	469	987
PCT	.7	1.5	11.7	40.8	47.5	100.0

TABLE 13

PERCENT FREQUENCY OF RELATIVE HUMIDITY BY TEMP

TEMP F	0-29	30-39	40-49	50-59	60-69	70-79	80-89	90-100	TOTAL DBS	PCT FREQ
70/74	.0	.0	.0	.0	.3	.3	.0	.1	9	.8
65/69	.0	.1	.0	.3	1.6	2.6	4.4	1.1	120	10.0
60/64	.0	.0	.1	1.5	9.0	17.2	20.8	10.1	703	58.8
55/59	.0	.0	.0	1.5	8.1	9.8	7.4	2.9	355	29.7
50/54	.0	.0	.0	.1	.1	.3	.0	.2	8	.7
TOTAL	0	1	1	41	229	362	389	172	1195	100.0
PCT	.0	.1	.1	3.4	19.2	30.3	32.6	14.4		

TABLE 14

PERCENT FREQUENCY OF WIND DIRECTION BY TEMP

	N	NE	E	SE	S	SW	W	NW	VAR	CALM
70/74	.1	.1	.2	.0	.1	.2	.1	*	.0	.0
65/69	.8	2.2	1.9	1.2	.9	1.3	1.3	.4	.0	.1
60/64	3.3	10.0	9.7	5.4	6.8	9.6	10.2	3.0	.0	.8
55/59	.9	1.2	2.6	5.8	6.8	8.1	3.4	.3	.0	.6
50/54	.0	.0	.0	.0	.5	.1	.0	.0	.0	.1
TOTAL	5.0	13.6	14.5	12.3	15.0	19.3	15.1	3.7	.0	1.5

TABLE 15

MEANS, EXTREMES AND PERCENTILES OF TEMP (DEG F) BY HOUR

HOUR (GMT)	MAX	99%	95%	50%	5%	1%	MIN	MEAN	TOTAL DBS
00603	76	71	67	62	57	55	54	61.8	69
06609	73	70	68	63	58	55	51	62.7	449
12615	70	67	64	60	56	55	52	60.2	636
18621	73	65	63	60	56	54	52	59.5	447
TOT	76	69	66	61	56	55	51	61.1	2272

TABLE 16

PERCENT FREQUENCY OF RELATIVE HUMIDITY BY HOUR

HOUR (GMT)	0-29	30-59	60-69	70-79	80-89	90-100	MEAN	TOTAL DBS
00603	.0	3.7	21.8	30.8	31.4	12.3	77	325
06609	.0	6.3	24.7	29.2	28.1	11.8	76	288
12615	.0	1.5	15.3	32.7	34.6	15.9	80	327
18621	.0	2.8	14.3	28.9	35.5	18.5	80	287
TOT	0	43	233	374	398	179	78	1227

DECEMBER

PERIOD: (PRIMARY) 1911-1971  
(OVER-ALL) 1854-1971

AREA 0015 AUSTRALIAN BIGHT SW  
35.65 126.5E

TABLE 17

PCT FREQ OF AIR TEMPERATURE (DEG F) AND THE OCCURRENCE OF FOG (WITHOUT PRECIPITATION)  
VS AIR-SEA TEMPERATURE DIFFERENCE (DEG F)

AIR-SEA TMP DIF	49 52	53 55	57 60	61 64	65 68	69 72	73 76	TOT	N FOG	NO FOG
9/10	.0	.0	.1	.1	.0	.1	.0	3	.0	.2
7/8	.0	.0	.0	.1	.2	.3	.1	9	.0	.6
6	.0	.0	.0	.1	.2	.3	.0	8	.0	.6
5	.0	.0	.1	.5	.7	.2	.0	22	.0	1.5
4	.0	.0	.1	.4	1.1	.0	.1	25	.1	1.6
3	.0	.0	.3	2.4	2.4	.1	.1	77	.1	5.2
2	.0	.0	.8	4.4	1.9	.0	.0	102	.0	7.1
1	.0	.0	2.6	9.5	1.5	.0	.0	195	.5	13.1
0	.0	.3	6.2	11.8	.8	.1	.0	276	.6	18.6
-1	.0	.4	8.2	7.6	.4	.0	.0	239	.3	16.3
-2	.0	1.4	8.9	4.5	.2	.0	.0	215	.1	14.9
-3	.0	1.5	5.8	1.9	.0	.0	.0	132	.1	9.1
-4	.1	1.0	3.1	.6	.1	.0	.0	71	.0	4.9
-5	.0	1.3	1.3	.2	.0	.0	.0	40	.0	2.8
-6	.0	.3	.3	.1	.0	.0	.0	11	.0	.8
-7/-8	.0	.2	.3	.1	.0	.0	.0	8	.0	.6
-9/-10	.0	.0	.1	.1	.0	.0	.0	2	.0	.1
-11/-13	.1	.0	.0	.0	.0	.0	.0	1	.0	.1
TOTAL	2		550		138		3		27	1409
		93		636		14		1436		
PCT	.1	6.5	36.3	44.3	9.6	1.0	.2	100.0	1.9	98.1

PERIOD: (OVER-ALL) 1963-1971

TABLE 18

PCT FREQ OF WIND SPEED (KTS) AND DIRECTION VERSUS SEA HEIGHTS (FT)

HGT	1-3	4-10	11-21	22-33	34-47	48+	PCT	1-3	4-10	11-21	22-33	34-47	48+	PCT
<1	.5	.0	.0	.0	.0	.0	.5	.2	.0	.0	.0	.0	.0	.2
1-2	.2	.8	.2	.0	.0	.0	1.2	.3	.9	.3	.0	.0	.0	1.5
3-4	.2	.2	.4	.0	.0	.0	.6	.0	1.7	2.3	.3	.0	.0	4.3
5-6	.0	.0	.2	.0	.0	.0	.2	.0	.4	3.1	.2	.0	.0	3.7
7	.0	.0	.0	.2	.0	.0	.2	.0	.0	1.9	.2	.0	.0	2.1
8-9	.0	.0	.0	.0	.0	.0	.0	.0	.0	.4	.3	.0	.0	.7
10-11	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.2	.0	.0	.2
12	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
13-16	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
17-19	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
20-22	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
23-25	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
26-32	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
33-40	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
41-48	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
49-60	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
61-70	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
71-86	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
87+	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
TOT PCT	.9	1.0	.7	.2	.0	.0	2.9	.5	3.0	8.0	1.2	.0	.0	12.7

HGT	1-3	4-10	11-21	22-33	34-47	48+	PCT	1-3	4-10	11-21	22-33	34-47	48+	PCT
<1	.4	.4	.0	.0	.0	.0	.8	.0	.1	.0	.0	.0	.0	.1
1-2	.2	4.4	.6	.0	.0	.0	5.3	.2	5.0	.5	.0	.0	.0	5.8
3-4	.2	2.6	3.2	.2	.0	.0	6.2	.0	3.3	1.4	.0	.0	.0	4.8
5-6	.0	.0	4.4	.2	.0	.0	4.6	.0	.2	3.6	.4	.0	.0	4.3
7	.0	.0	.3	.0	.0	.0	.3	.0	.0	.4	.4	.0	.0	.8
8-9	.0	.0	.2	.2	.0	.0	.4	.0	.0	.0	.0	.0	.0	.0
10-11	.0	.0	.0	.0	.0	.0	.0	.0	.1	.2	.5	.0	.0	.8
12	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
13-16	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.2	.0	.0	.2
17-19	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.2	.4	.0	.7
20-22	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
23-25	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
26-32	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
33-40	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
41-48	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
49-60	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
61-70	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
71-86	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
87+	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
TOT PCT	.8	7.5	8.7	.5	.0	.0	17.5	.2	8.7	6.1	1.8	.4	.0	17.3

PERIOD: (OVER-ALL) 1963-1971

DECEMBER

AREA 0015 AUSTRALIAN BIGHT SW  
35.65 126.5E

TABLE 18 (CONT)

PCT FREQ OF WIND SPEED (KTS) AND DIRECTION VERSUS SEA HEIGHTS (FT)

HGT	1-3	4-10	11-21	22-33	34-47	48+	PCT	1-3	4-10	11-21	22-33	34-47	48+	PCT
<1	.7	.2	.0	.0	.0	.0	.9	.2	.7	.0	.0	.0	.0	.9
1-2	.2	4.9	1.6	.0	.0	.0	6.7	.1	3.2	.3	.0	.0	.0	3.6
3-4	.0	3.0	2.7	.0	.0	.0	5.7	.0	1.5	1.8	.0	.0	.0	3.2
5-6	.0	.0	1.5	.2	.0	.0	1.6	.0	.0	2.7	.3	.0	.0	3.0
7	.0	.0	1.5	.0	.0	.0	1.5	.0	.0	1.4	.0	.0	.0	1.4
8-9	.0	.0	.4	.0	.0	.2	.6	.0	.0	.2	.0	.0	.1	.3
10-11	.0	.2	.0	.4	.0	.0	.5	.0	.0	.2	.0	.0	.0	.2
12	.0	.0	.0	.0	.0	.0	.0	.0	.0	.4	.0	.0	.0	.4
13-16	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
17-19	.0	.0	.0	.0	.2	.0	.2	.0	.0	.0	.0	.0	.0	.0
20-22	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
23-25	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
26-32	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
33-40	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
41-48	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
49-60	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
61-70	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
71-86	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
87+	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
TOT PCT	.8	8.3	7.8	.5	.2	.2	17.9	.3	5.4	7.0	.3	.0	.1	12.9

HGT	1-3	4-10	11-21	22-33	34-47	48+	PCT	1-3	4-10	11-21	22-33	34-47	48+	PCT	TOTAL PCT
<1	.0	.2	.0	.0	.0	.0	.2	.0	.0	.0	.0	.0	.0	.0	.0
1-2	.0	2.1	.7	.0	.0	.0	2.7	.0	.5	.2	.0	.0	.0	.7	.7
3-4	.0	1.9	2.7	.0	.0	.0	4.6	.0	.0	.7	.0	.0	.0	.7	.7
5-6	.0	.0	3.2	.2	.0	.0	3.4	.0	.0	.1	.2	.0	.0	.3	.3
7	.0	.0	1.3	.0	.0	.0	1.3	.0	.0	.1	.0	.0	.0	.1	.1
8-9	.0	.0	.7	.4	.0	.0	1.1	.0	.0	.0	.0	.0	.0	.0	.0
10-11	.0	.0	.0	.2	.0	.0	.2	.0	.0	.0	.0	.0	.0	.0	.0
12	.0	.0	.0	.2	.0	.0	.2	.0	.0	.0	.3	.0	.0	.3	.3
13-16	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
17-19	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
20-22	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
23-25	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
26-32	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
33-40	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
41-48	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
49-60	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
61-70	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
71-86	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
87+	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
TOT PCT	.0	4.2	8.5	1.0	.0	.0	13.7	.0	.5	1.0	.5	.0	.0	2.0	96.9

WIND SPEED (KTS) VS SEA HEIGHT (FT)

HGT	0-3	4-10	11-21	22-33	34-47	48+	PCT	TOT DBS
<1	6.1	1.5	.0	.0	.0	.0	7.6	
1-2	1.3	21.6	4.3	.0	.0	.0	27.3	
3-4	.4	14.1	14.9	.4	.0	.0	29.9	
5-6	.0	.6	18.4	1.7	.0	.0	20.8	
7	.0	.0	6.7	.9	.0	.0	7.6	
8-9	.0	.0	1.9	.9	.0	.2	3.0	
10-11	.0	.2	.4	1.3	.0	.0	1.9	
12	.0	.0	.4	.4	.0	.0	.9	
13-16	.0	.0	.0	.2	.0	.0	.2	
17-19	.0	.0	.0	.2	.6	.0	.9	
20-22	.0	.0	.0	.0	.0	.0	.0	
23-25	.0	.0	.0	.0	.0	.0	.0	
26-32	.0	.0	.0	.0	.0	.0	.0	
33-40	.0	.0	.0	.0	.0	.0	.0	
41-48	.0	.0	.0	.0	.0	.0	.0	
49-60	.0	.0	.0	.0	.0	.0	.0	
61-70	.0	.0	.0	.0	.0	.0	.0	
71-86	.0	.0	.0	.0	.0	.0	.0	
87+	.0	.0	.0	.0	.0	.0	.0	
TOT PCT	7.8	38.1	47.2	6.1	.6	.2	100.0	462

PERIOD: (OVER-ALL) 1949-1971

TABLE 19

PERCENT FREQUENCY OF WAVE HEIGHT (FT) VS WAVE PERIOD (SECONDS)

PERIOD (SEC)	<1	1-2	3-4	5-6	7	8-9	10-11	12	13-16	17-19	20-22	23-25	26-32	33-40	41-48	49-60	61-70	71-86	87+	TOTAL	MEAN HGT
<6	1.2	5.7	7.5	3.5	1.6	.7	.4	.1	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	153	4
6-7	.0	.8	3.7	8.7	6.9	3.0	1.1	1.4	1.0	.0	.1	.0	.0	.0	.0	.0	.0	.0	.0	196	6
8-9	.0	.4	1.0	5.0	6.3	3.7	2.2	1.2	.4	.0	.4	.0	.0	.0	.0	.0	.0	.0	.0	151	7
10-11	.0	.3	1.0	2.6	2.4	3.8	1.8	1.1	1.2	.7	.0	.0	.0	.0	.0	.0	.0	.0	.0	109	8
12-13	.0	.0	1.0	1.2	1.1	.5	.5	1.0	.5	.5	.0	.0	.0	.0	.0	.0	.0	.0	.0	47	8
>13	.0	.0	.0	.3	.1	.4	.5	.3	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	12	9
INDET	1.0	1.4	1.8	1.4	1.1	1.2	1.0	.1	.1	.1	.0	.0	.0	.0	.0	.0	.0	.0	.0	67	5
TOTAL	16	63	116	167	144	98	55	38	24	10	4	0	0	0	0	0	0	0	0	735	6
PCT	2.2	8.6	15.8	22.7	19.6	13.3	7.5	5.2	3.3	1.4	.5	.0	.0	.0	.0	.0	.0	.0	.0	100.0	



PERIOD: (PRIMARY) 1903-1971  
(OVER-ALL) 1854-1971

ANNUAL

AREA 0015 AUSTRALIAN RIGHT SW  
35.65 126.5E

TABLE 1

PERCENT FREQUENCY OF WEATHER OCCURRENCE BY WIND DIRECTION

WIND DIR	PRECIPITATION TYPE							OTHER WEATHER PHENOMENA							
	RAIN	RAIN SHWR	DRZL	FRZG PCPN	SNOW	OTHER FRZN PCPN	HAIL	PCPN AT DB TIME	PCPN PAST HOUR	THDR LTNG	FOG PCPN	FOG WD PCPN PAST HR	SMOKE HAZE	SPRAY BLWG DUST	NO SIG WEA
N	2.8	1.8	1.1	.0	.0	.0	.0	5.7	1.2	2.1	1.7	.0	1.5	*	88.2
NE	3.2	2.0	1.2	.0	.0	.0	.0	6.3	1.7	2.0	.5	.1	1.3	*	88.5
E	5.2	2.7	2.2	.0	.0	.0	.0	10.0	2.6	1.5	.8	.0	.6	*	84.7
SE	3.5	3.5	2.7	.0	.0	.0	.0	9.6	2.7	.6	1.3	.0	.5	.0	85.3
S	2.2	4.4	1.5	.0	.0	.0	.1	8.1	2.1	.7	1.6	.0	.1	.0	87.5
SW	2.1	6.4	1.9	.0	.0	.0	.3	10.7	2.6	.8	.8	.0	.1	.0	85.1
W	2.8	7.1	1.4	.0	.0	.0	.1	11.4	3.1	1.5	.6	.0	.2	*	83.7
NW	2.7	3.7	1.4	.0	.0	.0	.1	7.8	1.9	1.9	1.5	.0	.5	.0	86.7
VAR	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
CALM	1.3	.6	2.0	.0	.0	.0	.0	3.9	1.2	2.5	3.4	.0	.0	.0	89.0
TOT PCT	2.8	4.3	1.6	.0	.0	.0	.1	8.7	2.2	1.5	1.1	*	.6	*	86.3
TOT OBS: 19901															

TABLE 2

PERCENT FREQUENCY OF WEATHER OCCURRENCE BY HOUR

HOUR (GMT)	PRECIPITATION TYPE							OTHER WEATHER PHENOMENA							
	RAIN	RAIN SHWR	DRZL	FRZG PCPN	SNOW	OTHER FRZN PCPN	HAIL	PCPN AT DB TIME	PCPN PAST HOUR	THDR LTNG	FOG PCPN	FOG WD PCPN PAST HR	SMOKE HAZE	SPRAY BLWG DUST	NO SIG WEA
00003	2.9	4.7	1.5	.0	.0	.0	.1	9.1	2.0	.5	1.3	*	.7	.0	86.6
06009	2.3	4.1	1.2	.0	.0	.0	.1	7.7	2.4	.2	.9	.0	.9	*	88.0
12015	2.9	4.7	1.5	.0	.0	.0	.1	9.1	1.6	2.6	1.1	*	.6	.1	85.6
18021	3.0	3.7	2.3	.0	.0	.0	.1	9.0	2.8	2.6	1.0	.0	.1	*	84.9
TOT PCT	2.8	4.3	1.6	.0	.0	.0	.1	8.8	2.2	1.5	1.1	*	.6	*	86.2
TOT OBS: 20437															

TABLE 3

PERCENTAGE FREQUENCY OF WIND DIRECTION BY SPEED AND BY HOUR

WIND DIR	WIND SPEED (KNOTS)							TOTAL OBS	PCT FREQ	MEAN SPD	HOUR (GMT)							
	0-3	4-10	11-21	22-33	34-47	48+					00	03	06	09	12	15	18	21
N	.5	4.5	5.7	2.1	.2	*		12.9	13.6	14.3	15.0	12.6	13.5	10.5	12.3	12.3	14.5	
NE	.5	4.5	5.6	1.6	.1	*		12.3	13.7	12.2	12.3	11.9	13.1	11.8	12.7	13.0	13.0	
E	.7	4.0	3.6	.5	*	*		8.7	11.7	8.7	8.2	8.4	8.1	9.4	9.5	8.7	8.4	
SE	.4	3.2	2.7	.4	.1	*		6.8	11.5	6.7	6.2	7.3	6.3	7.6	6.5	7.1	5.0	
S	.6	5.1	4.9	1.3	.3	*		12.3	13.1	12.4	11.1	12.5	10.2	12.5	12.7	13.5	11.2	
SW	.5	5.3	7.7	3.9	.8	.1		18.3	16.4	18.0	17.3	18.3	19.2	19.1	18.4	18.3	18.1	
W	.6	5.0	6.9	3.6	.8	.1		17.0	15.8	15.9	17.4	17.8	18.5	17.8	16.5	15.9	17.4	
NW	.4	3.4	4.4	1.5	.2	*		10.0	13.1	10.7	10.9	9.9	9.8	9.2	9.6	9.4	10.3	
VAR	.0	.0	.0	.0	.0	.0		.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
CALM	1.6							1.6	.0	1.1	1.6	1.3	1.2	2.0	2.0	1.8	2.0	
TOT OBS	14.0						27947	14.0		5570	3235	4126	1627	5538	2295	4040	1515	
TOT PCT	5.9	35.1	41.5	14.7	2.6	.3		100.0		100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	

TABLE 3A

WIND DIR	WIND SPEED (KNOTS)							TOTAL OBS	PCT FREQ	MEAN SPD	HOUR (GMT)				
	0-6	7-16	17-27	28-40	41+						00	03	06	12	18
N	2.2	6.0	3.9	.8	*		12.9	13.6	14.5	12.9	11.1	12.9			
NE	2.0	6.5	3.3	.5	*		12.3	13.7	12.2	12.2	12.0	13.0			
E	2.1	5.0	1.4	.2	*		8.7	11.7	8.5	8.3	9.4	8.6			
SE	1.6	3.8	1.2	.2	*		6.8	11.5	6.5	6.9	7.3	6.5			
S	2.5	6.3	2.8	.6	.1		12.3	13.1	11.9	11.8	12.6	12.9			
SW	2.3	7.8	5.7	2.2	.3		18.3	16.4	17.7	18.6	18.9	18.3			
W	2.4	7.0	5.2	2.0	.3		17.0	15.8	16.5	18.0	17.4	16.3			
NW	1.6	4.7	3.0	.6	*		10.0	13.1	10.8	9.9	9.3	9.7			
VAR	.0	.0	.0	.0	.0		.0	.0	.0	.0	.0	.0			
CALM	1.6						1.6	.0	1.3	1.3	2.0	1.9			
TOT OBS						27947	14.0		8805	5753	7833	5556			
TOT PCT	18.4	47.1	26.5	7.1	.8		100.0		100.0	100.0	100.0	100.0			

PERIOD: (PRIMARY) 1903-1971  
(OVER-ALL) 1854-1971

# ANNUAL

AREA 0015 AUSTRALIAN BIGHT SW  
35.6S 126.5E

TABLE 4

PERCENTAGE FREQUENCY OF WIND SPEED BY HOUR (GMT)

HOUR	CALM	1-3	4-10	WIND SPEED (KNOTS)			48+	MEAN	PCT FREQ	TOTAL OBS
				11-21	22-33	34-47				
00003	1.3	4.9	34.6	41.4	15.0	2.6	.3	14.1	100.0	8805
04009	1.3	3.6	32.5	43.3	16.2	2.9	.3	14.6	100.0	5753
12015	2.0	4.3	36.2	40.7	14.0	2.5	.3	13.7	100.0	7833
18021	1.9	4.1	36.9	40.8	13.7	2.3	.3	13.7	100.0	5556
TOT								14.0		27947
PCT	1.6	4.3	35.1	41.5	14.7	2.6	.3		100.0	

TABLE 5

PCT FREQ OF TOTAL CLOUD AMOUNT (EIGHTHS)  
BY WIND DIRECTION

WIND DIR	0-2	3-4	5-7	8 & OBSCD	TOTAL OBS	MEAN CLOUD COVER
N	3.7	1.8	4.6	2.5		4.5
NE	3.3	2.0	4.5	2.9		4.8
E	1.2	1.0	3.3	3.0		5.9
SE	.8	1.0	3.0	2.7		5.9
S	1.7	2.6	5.5	3.0		5.4
SW	2.9	4.5	7.5	3.5		5.1
W	4.5	3.4	5.9	2.9		4.6
NW	3.2	1.8	3.2	1.7		4.4
VAR	.0	.0	.0	.0		.0
CALM	.5	.2	.4	.3		4.3
TOT OBS					12295	5.0
TOT PCT	21.7	18.1	37.7	22.5	100.0	

TABLE 6

PERCENTAGE FREQUENCY OF CEILING HEIGHTS (FT, NH >4/8)  
AND OCCURRENCE OF NH <5/8 BY WIND DIRECTION

	000	150	300	600	1000	2000	3500	5000	6500	8000+	NH <5/8 ANY HGT	TOTAL DBS
	149	299	599	999	1999	3499	4999	6499	7999			
*	*	*	.1	.6	1.8	1.0	.7	.2	.1	.2	7.6	
*	*	*	.1	.9	1.9	1.2	.9	.2	.1	.2	7.1	
*	*	*	.1	.9	1.8	1.5	.6	.2	.1	.1	3.3	
*	*	*	.1	.9	1.8	1.3	.4	.2	.1	*	2.8	
*	*	*	.1	1.0	2.7	1.7	1.0	.3	.1	.1	5.6	
*	*	*	.1	1.4	3.2	2.1	1.4	.3	.1	*	9.6	
*	*	*	.2	1.3	2.4	1.4	.9	.2	*	.1	10.2	
*	.0	.1	.6	1.2	.6	.6	.6	.1	*	.1	6.4	
.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
*	*	*	*	.3	.1	*	*	*	*	*	.8	
												12295
.2	.1	.9	7.7	17.0	11.0	6.6	1.8	.4	.8	53.5		100.0

TABLE 7

CUMULATIVE PCT FREQ OF SIMULTANEOUS OCCURRENCE  
OF CEILING HEIGHT (NH >4/8) AND VSBY (NM)

CEILING (FEET)	VSBY (NM)							
	>10	>5	>2	>1	>1/2	>1/4	>50YD	>0
>6500	1.1	1.2	1.3	1.3	1.3	1.3	1.3	1.3
>4000	2.6	3.1	3.1	3.1	3.1	3.1	3.1	3.1
>3500	8.3	9.6	9.7	9.7	9.7	9.7	9.7	9.7
>2000	17.9	20.3	20.7	20.7	20.7	20.7	20.7	20.7
>1000	32.2	37.0	37.7	37.7	37.7	37.7	37.7	37.7
>600	37.8	44.3	45.3	45.4	45.4	45.4	45.4	45.4
>300	38.2	45.0	46.1	46.2	46.3	46.3	46.3	46.3
>150	38.2	45.0	46.2	46.3	46.3	46.3	46.3	46.3
>0	38.3	45.1	46.3	46.4	46.5	46.5	46.5	46.5

TOTAL NUMBER OF OBS: 12499

PCT FREQ NH <5/8: 53.5

TABLE 7A

PERCENTAGE FREQ OF LOW CLOUDS (EIGHTHS)

	0	1	2	3	4	5	6	7	8	OBSCD	TOTAL OBS
	10.1	10.5	10.6	10.9	10.1	7.9	9.6	11.6	18.5	.1	13700

PERIOD: (PRIMARY) 1903-1971  
(OVER-ALL) 1854-1971

ANNUAL

AREA 0015 AUSTRALIAN BIGHT SW  
35.65 126.5E

TABLE 8

PERCENT FREQ OF WIND DIRECTION VS OCCURRENCE OR NON-OCCURRENCE OF  
PRECIPITATION WITH VARYING VALUES OF VISIBILITY

VSBY (NM)		N	NE	E	SE	S	SW	W	NW	VAR	CALM	PCT	TOTAL OBS
<1/2	PCP	.0	*	*	.0	*	*	*	.0	.0	.0	*	
	NO PCP	*	*	*	*	*	.0	*	*	.0	*	.1	
	TOT %	*	*	*	*	*	*	*	*	.0	*	.2	
1/2<1	PCP	*	*	*	*	*	*	*	*	.0	.0	.1	
	NO PCP	.1	*	*	*	.1	.1	.1	.1	.0	*	.5	
	TOT %	.1	*	*	*	.1	.1	.1	.1	.0	*	.6	
1<2	PCP	*	*	*	*	*	*	*	*	.0	.0	.1	
	NO PCP	.1	.1	*	*	*	*	*	*	.0	.0	.3	
	TOT %	.1	.1	*	*	*	*	*	*	.0	.0	.4	
2<5	PCP	*	.1	.1	.1	*	.1	.1	.1	.0	.0	.6	
	NO PCP	*	.1	.1	.1	*	.1	.1	.1	.0	*	.5	
	TOT %	.1	.1	.2	.1	.1	.1	.2	.1	.0	*	1.1	
5<10	PCP	.5	.4	.4	.3	.6	1.3	1.4	.6	.0	*	5.5	
	NO PCP	4.0	3.7	2.8	1.9	3.6	5.1	4.6	2.7	.0	.2	28.6	
	TOT %	4.5	4.2	3.2	2.3	4.2	6.4	6.0	3.3	.0	.2	34.1	
10+	PCP	.7	.2	.2	.2	.3	.6	.5	.2	.0	*	2.3	
	NO PCP	7.8	7.8	5.1	4.4	8.0	11.1	10.1	6.1	.0	.9	61.3	
	TOT %	8.0	8.0	5.3	4.5	8.2	11.7	10.6	6.3	.0	.9	63.6	
TOT OBS		19900											
TOT PCT		12.4	12.5	8.7	7.0	12.7	18.3	16.9	9.9	.0	1.1	100.0	

TABLE 9

PERCENT FREQ OF WIND DIRECTION VS WIND SPEED  
WITH VARYING VALUES OF VISIBILITY

VSBY (NM)	SPD KTS	N	NE	E	SE	S	SW	W	NW	VAR	CALM	PCT	TOTAL OBS
<1/2	0-3	.0	.0	.0	.0	.0	.0	*	.0	.0	*	*	
	4-10	*	*	*	*	*	*	*	*	.0	*	.1	
	11-21	*	*	*	.0	*	.0	.0	.0	.0	*	*	
	22+	.0	.0	*	.0	*	.0	*	.0	.0	*	*	
	TOT %	*	*	*	*	*	*	*	*	.0	*	.2	
1/2<1	0-3	*	.0	*	.0	*	.0	.0	.0	.0	*	*	
	4-10	*	*	*	*	*	*	*	*	.0	*	.2	
	11-21	*	*	*	*	*	*	*	*	.0	*	.1	
	22+	*	*	*	.0	*	*	*	*	.0	*	.2	
	TOT %	.1	*	*	*	.1	.1	.1	.1	.0	*	.6	
1<2	0-3	.0	.0	*	*	*	*	.0	.0	.0	.0	*	
	4-10	*	*	*	*	*	*	*	*	.0	*	.1	
	11-21	*	*	*	*	*	*	*	*	.0	*	.1	
	22+	*	*	*	*	*	*	*	*	.0	*	.2	
	TOT %	.1	.1	*	*	*	.1	*	*	.0	.0	.4	
2<5	0-3	.0	*	*	.0	.0	*	*	*	.0	*	*	
	4-10	*	*	*	.1	*	.1	*	*	.0	*	.3	
	11-21	*	*	*	*	*	*	.1	.1	.0	*	.4	
	22+	*	.1	.1	.1	*	.1	.1	*	.0	*	.5	
	TOT %	.1	.1	.2	.1	.1	.2	.2	.1	.0	*	1.2	
5<10	0-3	.2	.2	.2	.1	.2	.1	.2	.1	.0	.2	1.6	
	4-10	1.4	1.3	1.3	.9	1.4	1.3	1.4	1.0	.0	*	9.9	
	11-21	1.8	1.9	1.2	.9	1.8	2.5	2.0	1.4	.0	*	13.5	
	22+	.9	.6	.2	.2	.5	2.0	2.0	.6	.0	*	7.1	
	TOT %	4.3	4.0	3.0	2.1	3.9	6.0	5.6	3.1	.0	.2	32.2	
10+	0-3	.3	.5	.4	.2	.4	.3	.3	.2	.0	1.0	3.5	
	4-10	2.9	3.2	2.6	2.3	3.8	3.8	3.5	2.3	.0	*	24.5	
	11-21	3.8	3.9	2.5	1.9	3.3	5.2	4.9	3.1	.0	*	28.6	
	22+	1.3	.9	.2	.2	.8	2.5	2.1	.8	.0	*	8.9	
	TOT %	8.3	8.3	5.6	4.7	8.4	12.0	10.8	6.5	.0	1.0	65.6	
TOT OBS		21591											
TOT PCT		12.9	12.5	8.8	7.1	12.6	18.2	16.8	9.9	.0	1.3	100.0	

## ANNUAL

PERIOD: (PRIMARY) 1907-1971  
(OVER-ALL) 1854-1971

AREA 0015 AUSTRALIAN BIGHT SW  
35.65 126.5E

TABLE 10

PERCENT FREQUENCY OF CEILING HEIGHTS (FEET, NH >4/8) AND  
OCCURRENCE OF NH <5/8 BY HOUR

HOUR (GMT)	000 149	150 299	300 599	600 999	1000 1999	2000 3499	3500 4999	5000 6499	6500 7999	8000+	TOTAL	NH <5/8 ANY HGT	TOTAL OBS
00003	.2	.1	1.1	8.1	19.1	12.0	7.6	1.9	.4	.9	51.4	48.6	3352
06009	.1	.1	.7	6.9	14.7	10.0	6.6	1.9	.5	.8	42.3	57.7	3487
12015	.2	*	.5	6.8	14.7	9.9	5.6	1.7	.4	.6	40.3	59.7	3120
18021	.3	.1	1.1	7.6	17.3	10.3	5.8	1.4	.4	.9	45.3	54.7	3025
TOT													12984
PCT	.2	.1	.9	7.4	16.4	10.6	6.4	1.8	.4	.8	44.9	55.1	100.0

TABLE 11

PERCENT FREQUENCY VSBY (NM) BY HOUR

HOUR (GMT)	<1/2	1/2<1	1<2	2<5	5<10	10+	TOTAL OBS
00003	.2	.7	.5	1.1	36.4	61.2	6221
06009	.1	.4	.5	1.5	25.5	71.9	4920
12015	.2	.6	.5	1.0	38.3	59.5	6178
18021	.2	.6	.1	1.2	27.9	70.1	4809
TOT							22128
PCT	.2	.6	.4	1.2	32.7	65.0	100.0

TABLE 12

CUMULATIVE PCT FREQ OF RANGES OF VSBY (NM) AND/OR  
CEILING HGT (FEET, NH >4/8), BY HOUR

HOUR (GMT)	<150 <5000	<600 <1	<1000 <5	1000+ AND5+	NH <5/8 AND 5+	TOTAL OBS
00003	.2	1.6	10.5	42.6	46.9	3252
06009	.1	1.0	9.3	34.8	55.9	3363
12015	.2	.7	8.8	33.5	57.6	2982
18021	.3	1.6	10.5	36.9	52.6	2902
TOT						12499
PCT	.2	1.2	9.8	37.0	53.2	100.0

TABLE 13

PERCENT FREQUENCY OF RELATIVE HUMIDITY BY TEMP

TEMP F	0-29	30-39	40-49	50-59	60-69	70-79	80-89	90-100	TOTAL OBS	PCT FREQ
75/79	.0	.0	.0	*	*	*	.0	.0		.9
70/74	.0	.0	.0	*	.2	.3	.2	.1		.9
65/69	.0	*	*	.4	1.5	2.9	4.7	2.9	12.3	
60/64	.0	*	.1	1.3	6.2	11.1	12.2	5.2	36.1	
55/59	.0	.0	.1	1.6	6.4	11.8	13.1	5.3	38.3	
50/54	.0	.0	*	.9	3.4	3.2	3.1	1.1	11.7	
45/49	.0	.0	.0	*	.1	.3	.2	.1	.6	
40/44	.0	.0	.0	.0	.0	.0	.0	*	*	
TOTAL									15272	100.0
PCT	.0	*	.2	4.2	17.8	29.7	33.5	14.6		

TABLE 14

PERCENT FREQUENCY OF WIND DIRECTION BY TEMP

N	NE	E	SE	S	SW	W	NW	VAR	CALM
.0	*	*	.0	*	*	.0	.0	.0	.0
.1	.2	.1	.1	.1	.1	.1	.1	.0	*
2.3	2.9	1.5	.8	.8	1.2	1.5	1.1	.0	.2
5.0	5.4	4.0	3.1	4.0	5.0	5.3	3.8	.0	.5
4.7	3.4	2.3	2.4	5.1	7.5	7.8	4.6	.0	.5
.4	.3	.4	.9	2.8	4.3	2.1	.4	.0	.1
.0	.0	.0	.1	.2	.3	.1	*	.0	.0
.0	.0	.0	.0	.0	*	.0	.0	.0	.0
12.5	12.3	8.3	7.4	12.9	18.4	16.9	10.0	.0	1.3

TABLE 15

MEANS, EXTREMES AND PERCENTILES OF TEMP (DEG F) BY HOUR

HOUR (GMT)	MAX	99%	95%	50%	5%	1%	MIN	MEAN	TOTAL OBS
00003	77	68	65	60	55	52	46	60.2	8676
06009	77	68	66	61	56	53	47	61.0	5663
12015	73	65	64	59	54	52	43	59.2	7896
18021	73	65	63	59	54	52	45	58.6	5651
TOT	77	67	65	60	54	52	43	59.8	27886

TABLE 16

PERCENT FREQUENCY OF RELATIVE HUMIDITY BY HOUR

HOUR (GMT)	0-29	30-39	40-49	50-59	60-69	70-79	80-89	90-100	MEAN	TOTAL OBS
00003	.0	5.7	17.9	28.7	34.0	13.7	78	4164		
06009	.0	6.2	21.5	31.5	30.3	10.5	76	3724		
12015	.0	3.0	16.1	28.7	34.8	17.3	80	4097		
18021	.0	3.1	15.8	30.0	34.1	17.0	79	3621		
TOT	0	700	2769	4622	5220	2295	78	15606		

PERIOD: (PRIMARY) 1903-1971  
(OVER-ALL) 1854-1971

ANNUAL

AREA 0015 AUSTRALIAN BIGHT SW  
35.6S 126.5E

TABLE 17

PCT FREQ OF AIR TEMPERATURE (DEG F) AND THE OCCURRENCE OF FOG (WITHOUT PRECIPITATION) VS AIR-SEA TEMPERATURE DIFFERENCE (DEG F)													
AIR-SEA TMP DIF	41 44	45 48	49 52	53 56	57 60	61 64	65 68	69 72	73 76	77 80	TOT	W FOG	WD FOG
14/16	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	1	.0	*
11/13	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	3	.0	*
9/10	.0	.0	.0	.0	*	*	*	*	*	*	26	.0	.2
7/8	.0	.0	.0	.0	*	.1	.1	.1	.1	.0	62	.0	.4
5	.0	.0	.0	*	.1	.2	.2	.1	*	.0	96	.0	.6
4	.0	.0	.0	*	.2	.3	.4	.2	*	.0	190	*	1.1
3	.0	.0	.0	*	.4	.8	.6	.2	*	.0	353	*	2.0
2	.0	.0	*	.1	1.1	1.4	1.2	.3	*	.0	711	.1	4.0
1	.0	.0	*	.2	2.5	2.2	1.8	.3	.0	.0	1212	.1	6.9
0	.0	.0	*	.7	4.6	4.0	2.6	.2	.0	.0	2100	.2	11.9
-1	.0	.0	*	1.8	6.2	5.1	2.2	.1	.0	.0	2696	.2	15.3
-2	.0	.0	.1	3.0	5.6	5.0	1.4	*	.0	.0	2630	.2	15.0
-3	.0	*	.2	3.6	4.6	3.8	.6	*	.0	.0	2236	.2	12.7
-4	.0	*	.3	3.7	3.6	2.7	.2	.0	.0	.0	1874	.1	10.7
-5	.0	*	.7	2.8	2.5	1.4	.1	.0	.0	.0	1317	*	7.5
-6	.0	*	.7	2.1	1.5	.5	*	.0	.0	.0	837	*	4.7
-7/-8	.0	*	.7	1.1	.8	.2	*	.0	.0	.0	500	*	2.9
-9/-10	.0	.1	.7	.8	.5	.1	.0	.0	.0	.0	384	*	2.2
-11/-13	.0	*	.3	.2	.1	*	.0	.0	.0	.0	108	.0	.6
-14/-16	.0	*	.1	.1	*	.0	.0	.0	.0	.0	35	.0	.2
TOTAL	*	*	*	*	.0	.0	.0	.0	.0	.0	17380	9	.1
PCT	*	.2	4.1	20.4	34.2	27.8	11.5	1.6	.1	*	100.0	1.2	98.8

PERIOD: (OVER-ALL) 1943-1971

TABLE 18

PCT FREQ OF WIND SPEED (KTS) AND DIRECTION VERSUS SEA HEIGHTS (FT)

N													
HGT	1-3	4-10	11-21	22-33	34-47	48+	PCT	1-3	4-10	11-21	22-33	34-47	48+
<1	.2	.2	.0	.0	.0	.0	.5	.2	.2	*	.0	.0	.0
1-2	.1	1.8	.6	.0	.0	.0	2.5	.1	2.3	.6	.0	.0	.0
3-4	*	1.2	2.1	.2	.0	.0	3.5	*	1.4	2.6	.1	.0	.0
5-6	.0	.3	2.1	.6	.0	.0	3.0	*	.4	2.2	.4	*	.0
7	.0	*	.9	.6	*	.0	1.6	.0	*	.7	.3	*	.0
8-9	.0	.0	.2	.4	*	.0	.6	.0	.0	.2	.3	*	.0
10-11	.0	.0	.1	.3	*	.0	.4	.0	.0	.1	.4	.0	.0
12	.0	.0	*	.1	*	.0	.2	*	.0	*	.1	*	.0
13-16	.0	.0	.0	.1	.1	.0	.1	.0	.0	.0	*	*	.0
17-19	.0	.0	.0	*	.0	.0	*	.0	.0	.0	.0	.0	.0
20-22	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
23-25	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
26-32	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
33-40	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
41-48	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
49-60	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
61-70	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
71-86	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
87+	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
TOT PCT	.4	3.6	6.0	2.2	.2	.0	12.5	.3	4.5	6.5	1.6	.1	.0

SE													
HGT	1-3	4-10	11-21	22-33	34-47	48+	PCT	1-3	4-10	11-21	22-33	34-47	48+
<1	.2	.3	.0	.0	.0	.0	.6	.1	.2	.0	.0	.0	.0
1-2	.1	1.6	.4	.0	.0	.0	2.7	.1	1.7	.3	.0	.0	.0
3-4	.1	1.1	1.7	*	.0	.0	2.9	*	1.2	1.2	*	.0	.0
5-6	.0	.2	1.6	.2	*	.0	1.9	.2	1.0	.1	.0	.0	.0
7	.0	*	.4	*	.0	.0	.4	.0	.3	.2	*	.0	.0
8-9	.0	.0	*	.1	.1	.0	.2	.0	.0	*	.1	*	.0
10-11	.0	.0	*	.1	.0	.0	.1	.0	*	*	.1	.0	.0
12	.0	.0	.0	*	.0	.0	*	.0	.0	*	*	.0	.0
13-16	.0	.0	.0	.0	.0	.0	*	.0	.0	*	*	.0	.0
17-19	.0	.0	.0	.0	.0	.0	.0	.0	.0	*	*	.0	.0
20-22	.0	.0	.0	*	.0	.0	*	.0	.0	.0	*	.0	.0
23-25	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
26-32	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
33-40	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
41-48	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
49-60	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
61-70	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
71-86	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
87+	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
TOT PCT	.4	3.3	4.2	.4	.1	.0	8.3	.2	3.6	2.9	.6	.1	.0



PERIOD: (OVER-ALL) 1963-1971

ANNUAL

TABLE 18 (CONT)

AREA 0015 AUSTRALIAN RIGHT SW  
35.65 126.5E

PCT FREQ OF WIND SPEED (KTS) AND DIRECTION VERSUS SEA HEIGHTS (FT)

HGT	S							PCT	SW							PCT
	1-3	4-10	11-21	22-33	34-47	48+			1-3	4-10	11-21	22-33	34-47	48+		
<1	.2	.5	.0	.0	.0	.0		.7	.2	.4	.0	.0	.0	.0		.6
1-2	.2	2.5	.7	.0	.0	.0		3.3	.1	2.2	.0	.0	.0	.0		3.0
3-4	.2	1.8	1.8	.1	.0	.0		3.8	.2	1.8	2.4	.2	.0	.0		4.4
5-6	.2	.4	1.7	.3	.0	.0		2.3	.2	.3	2.9	.8	.0	.0		4.1
7	.0	.0	1.0	.3	.0	.0		1.4	.0	.1	1.2	.9	.1	.0		2.2
8-9	.0	.0	.2	.2	.0	.0		.4	.0	.0	.3	.6	.1	.0		1.0
10-11	.0	.0	.1	.2	.1	.0		.4	.0	.0	.1	.4	.1	.0		.6
12	.0	.0	.0	.1	.0	.0		.1	.0	.0	.0	.3	.1	.0		.5
13-16	.0	.0	.0	.0	.0	.0		.1	.0	.0	.0	.2	.1	.0		.3
17-19	.0	.0	.0	.0	.0	.0		.0	.0	.0	.0	.0	.0	.0		.1
20-22	.0	.0	.0	.0	.0	.0		.0	.0	.0	.0	.0	.0	.0		.0
23-25	.0	.0	.0	.0	.0	.0		.0	.0	.0	.0	.0	.0	.0		.0
26-32	.0	.0	.0	.0	.0	.0		.0	.0	.0	.0	.0	.0	.0		.0
33-40	.0	.0	.0	.0	.0	.0		.0	.0	.0	.0	.0	.0	.0		.0
41-48	.0	.0	.0	.0	.0	.0		.0	.0	.0	.0	.0	.0	.0		.0
49-60	.0	.0	.0	.0	.0	.0		.0	.0	.0	.0	.0	.0	.0		.0
61-70	.0	.0	.0	.0	.0	.0		.0	.0	.0	.0	.0	.0	.0		.0
71-86	.0	.0	.0	.0	.0	.0		.0	.0	.0	.0	.0	.0	.0		.0
87+	.0	.0	.0	.0	.0	.0		.0	.0	.0	.0	.0	.0	.0		.0
TOT PCT	.4	5.3	5.4	1.2	.2	.0		12.5	.4	4.9	7.7	3.6	.5	.1		17.0

HGT	W							PCT	NW							PCT	TOTAL PCT
	1-3	4-10	11-21	22-33	34-47	48+			1-3	4-10	11-21	22-33	34-47	48+			
<1	.2	.4	.0	.0	.0	.0		.6	.1	.3	.0	.0	.0	.0		.5	
1-2	.1	2.5	.5	.0	.0	.0		3.0	.1	1.8	.5	.0	.0	.0		2.4	
3-4	.0	1.9	2.5	.2	.0	.0		4.6	.0	.8	1.5	.2	.0	.0		2.6	
5-6	.0	.3	2.9	.7	.0	.0		3.9	.0	.2	1.6	.4	.0	.0		2.2	
7	.0	.0	1.5	.9	.1	.0		2.4	.0	.0	.8	.4	.1	.0		1.3	
8-9	.0	.0	.4	.5	.2	.0		1.1	.0	.0	.2	.2	.1	.0		.5	
10-11	.0	.0	.1	.3	.1	.0		.5	.0	.0	.0	.2	.1	.0		.2	
12	.0	.0	.1	.2	.2	.0		.5	.0	.0	.0	.1	.0	.0		.1	
13-16	.0	.0	.0	.1	.1	.0		.4	.0	.0	.0	.0	.1	.0		.1	
17-19	.0	.0	.0	.0	.1	.0		.1	.0	.0	.0	.0	.0	.0		.0	
20-22	.0	.0	.0	.0	.1	.0		.1	.0	.0	.0	.0	.0	.0		.0	
23-25	.0	.0	.0	.0	.1	.0		.1	.0	.0	.0	.0	.0	.0		.0	
26-32	.0	.0	.0	.0	.0	.0		.0	.0	.0	.0	.0	.0	.0		.0	
33-40	.0	.0	.0	.0	.0	.0		.0	.0	.0	.0	.0	.0	.0		.0	
41-48	.0	.0	.0	.0	.0	.0		.0	.0	.0	.0	.0	.0	.0		.0	
49-60	.0	.0	.0	.0	.0	.0		.0	.0	.0	.0	.0	.0	.0		.0	
61-70	.0	.0	.0	.0	.0	.0		.0	.0	.0	.0	.0	.0	.0		.0	
71-86	.0	.0	.0	.0	.0	.0		.0	.0	.0	.0	.0	.0	.0		.0	
87+	.0	.0	.0	.0	.0	.0		.0	.0	.0	.0	.0	.0	.0		.0	
TOT PCT	.3	5.1	8.0	3.3	.7	.1		17.4	.3	3.2	4.6	1.6	.3	.0		9.9	98.1

WIND SPEED (KTS) VS SEA HEIGHT (FT)

HGT	0-3	4-10	11-21	22-33	34-47	48+	PCT	TOT OBS
<1	3.8	3.0	.1	.0	.0	.0	6.8	
1-2	1.1	15.4	4.2	.0	.0	.0	21.7	
3-4	.2	11.1	15.8	1.1	.0	.0	28.3	
5-6	.1	2.3	15.7	3.4	.1	.0	21.6	
7	.0	.2	6.8	3.6	.3	.0	10.9	
8-9	.0	.1	1.5	2.4	.4	.0	4.5	
10-11	.0	.1	.6	1.9	.3	.0	2.8	
12	.0	.0	.2	1.0	.3	.0	1.5	
13-16	.0	.0	.1	.7	.3	.0	1.1	
17-19	.0	.0	.0	.1	.1	.0	.3	
20-22	.0	.0	.0	.1	.2	.0	.3	
23-25	.0	.0	.0	.0	.1	.0	.1	
26-32	.0	.0	.0	.0	.1	.0	.1	
33-40	.0	.0	.0	.0	.0	.0	.0	
41-48	.0	.0	.0	.0	.0	.0	.0	
49-60	.0	.0	.0	.0	.0	.0	.0	
61-70	.0	.0	.0	.0	.0	.0	.0	
71-86	.0	.0	.0	.0	.0	.0	.0	
87+	.0	.0	.0	.0	.0	.0	.0	
TOT PCT	5.2	33.3	44.9	14.3	2.2	.2	100.0	6948

PERIOD: (OVER-ALL) 1949-1970

TABLE 19

PERCENT FREQUENCY OF WAVE HEIGHT (FT) VS WAVE PERIOD (SECONDS)

PERIOD (SEC)	<1	1-2	3-4	5-6	7	8-9	10-11	12	13-16	17-19	20-22	23-25	26-32	33-40	41-48	49-60	61-70	71-86	87+	TOTAL	MEAN HGT
<6	.7	3.6	5.6	3.3	1.6	.8	.5	.2	.1	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	1668	4
6-7	.0	.3	3.0	6.0	5.6	3.3	2.0	.9	1.0	.3	.2	.1	.0	.0	.0	.0	.0	.0	.0	2289	7
8-9	.0	.1	1.2	4.3	6.0	4.4	3.4	1.6	1.8	.5	.3	.1	.1	.0	.0	.0	.0	.0	.0	2431	8
10-11	.0	.1	.6	1.4	3.1	3.2	2.6	1.8	1.9	.6	.4	.2	.1	.0	.0	.0	.0	.0	.0	1535	10
12-13	.0	.0	.3	.4	.9	1.5	1.3	1.0	1.4	.4	.4	.1	.1	.0	.0	.0	.0	.0	.0	799	11
>13	.0	.0	.0	.2	.3	.5	.5	.4	.9	.3	.2	.2	.2	.0	.0	.0	.0	.0	.0	377	13
INDET	.8	.8	1.6	1.4	1.6	1.2	.9	.5	.4	.1	.1	.1	.0	.0	.0	.0	.0	.0	.0	968	7
TOTAL																				10162	8
PCT	1.4	4.9	12.3	17.1	19.0	14.9	11.3	6.4	7.6	2.2	1.6	.7	.5	.1	.0	.0	.0	.0	.0	100.0	

PERIOD: (PRIMARY) 1903-1971  
(OVER-ALL) 1854-1971

AREA 0015 AUSTRALIAN BIGHT SW  
35.6S 126.5E

TABLE 20

PERCENT FREQUENCY OF OCCURRENCE OF SEA TEMP (DEG F) BY MONTH

SEA TMP DEG F	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC	ANN	PCT
96+	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	0	.0
95/96	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	0	.0
93/94	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	0	.0
91/92	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	0	.0
89/90	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	0	.0
87/88	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	0	.0
85/86	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	0	.0
83/84	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	0	.0
81/82	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	0	.0
79/80	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	0	.0
77/78	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	0	.0
75/76	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	0	.0
73/74	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	0	.0
71/72	.1	.1	.4	.0	.0	.0	.0	.1	.0	.0	.0	.0	.1	.18
69/70	.6	3.9	2.1	.1	.1	.0	.1	.1	.0	.0	.0	.0	.7	166
67/68	4.6	16.2	15.2	2.9	.7	.4	.0	.2	.2	.0	.0	.0	.7	955
65/66	24.2	37.4	35.3	18.9	4.6	.9	.1	.3	.0	.1	.8	4.9	2859	11.4
63/64	43.6	38.1	33.5	42.2	21.9	4.4	1.2	.3	.4	.5	5.2	22.1	4576	18.3
61/62	20.7	7.8	10.6	26.4	39.2	19.7	5.4	3.2	1.9	5.1	16.5	38.0	4138	16.5
59/60	4.4	1.2	2.3	7.8	25.6	43.1	23.4	12.1	13.6	24.8	40.3	25.8	4579	18.3
57/58	.5	.2	.4	.9	7.2	25.7	45.0	42.9	39.4	39.2	26.2	6.8	4632	18.5
55/56	.2	.0	.1	.4	.5	4.9	21.0	33.8	33.5	24.7	8.7	1.3	2525	10.1
53/54	.0	.0	.1	.2	.1	.7	2.6	5.5	9.1	4.6	1.9	.0	486	1.9
51/52	.0	.0	.1	.0	.0	.2	1.0	1.5	1.4	1.0	.1	.1	107	.4
49/50	.0	.0	.0	.0	.0	.1	.2	.3	.4	.0	.0	.0	20	.1
47/48	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	0	.0
45/46	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	0	.0
43/44	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	0	.0
41/42	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	0	.0
39/40	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	0	.0
37/38	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	0	.0
35/36	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	0	.0
33/34	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	0	.0
31/32	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	0	.0
29/30	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	0	.0
27/28	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	0	.0
25/26	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	0	.0
23/24	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	0	.0
21/22	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	0	.0
19/20	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	0	.0
17/18	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	0	.0
15/16	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	0	.0
13/14	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	0	.0
11/12	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	0	.0
9/10	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	0	.0
7/8	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	0	.0
5/6	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	0	.0
3/4	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	0	.0
1/2	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	0	.0
TOTAL	2039	2281	2369	2270	2246	1922	1878	1870	1821	2300	2013	2054	25063	100.0
MEAN	63.6	64.9	64.6	63.0	61.3	59.3	57.6	56.9	56.7	57.4	59.1	61.3	60.4	

TABLE 21

PRESSURE (MB)

AVERAGE BY HOUR (GMT)

MO	0000	0300	0600	0900	1200	1500	1800	2100	MEAN	TOTAL OBS
JAN	1017	1016	1016	1015	1016	1016	1015	1015	1016	1435
FEB	1017	1015	1016	1015	1017	1015	1016	1016	1016	1399
MAR	1019	1018	1017	1017	1018	1019	1017	1018	1018	1712
APR	1019	1018	1018	1018	1019	1019	1018	1018	1018	1609
MAY	1017	1017	1017	1017	1018	1017	1017	1016	1017	1737
JUN	1017	1015	1017	1014	1017	1017	1017	1017	1017	1570
JUL	1017	1015	1016	1012	1017	1014	1017	1013	1016	1467
AUG	1017	1017	1017	1014	1017	1016	1017	1018	1017	1468
SEP	1017	1015	1016	1015	1019	1018	1017	1017	1017	1422
OCT	1016	1014	1015	1013	1016	1013	1015	1012	1015	1655
NOV	1016	1015	1014	1014	1016	1016	1015	1016	1015	1529
DEC	1016	1014	1015	1015	1016	1015	1014	1015	1015	1429
ANN	1017	1016	1016	1015	1017	1016	1016	1016	1017	18392
OBS	4085	1171	3666	586	4002	770	3599	513		

PERCENTILES

MO	MIN	1%	5%	25%	50%	75%	95%	99%	MAX
JAN	996	998	1004	1012	1016	1020	1025	1027	1030
FEB	996	1000	1005	1012	1017	1021	1026	1030	1037
MAR	997	1002	1006	1014	1018	1022	1028	1031	1035
APR	990	999	1004	1013	1019	1024	1030	1032	1035
MAY	991	995	1002	1012	1018	1023	1029	1032	1036
JUN	985	991	1000	1011	1018	1024	1030	1031	1037
JUL	981	993	1000	1009	1017	1024	1031	1035	1041
AUG	989	997	1002	1010	1017	1023	1031	1037	1042
SEP	990	995	1002	1012	1018	1023	1029	1031	1035
OCT	989	994	1000	1010	1015	1021	1027	1033	1035
NOV	986	997	1003	1010	1015	1021	1028	1031	1034
DEC	993	999	1003	1011	1016	1020	1025	1028	1034

Volume Area	Name	Approximate Central Location
1	Princess Charlotte Bay	14.3°S 146.2°E
	Cairns	17.4°S 148.1°E
	Cumberland Islands	20.3°S 150.3°E
	Rockhampton	23.3°S 152.8°E
	Brisbane	26.9°S 154.7°E
	Coffs Harbour	30.6°S 154.6°E
	Sydney	33.7°S 153.4°E
	Cape Howe NE	36.5°S 152.6°E
2	Melbourne SE	39.6°S 147.5°E
	Tasmania East	43.2°S 149.7°E
	Tasmania West	43.3°S 144.1°E
	Cape Nelson	39.4°S 141.4°E
	Spencer Gulf	35.4°S 137.1°E
	Australian Bight SE	36.5°S 132.5°E
	Australian Bight SW	35.5°S 127.0°E
	Esperance Bay S	35.6°S 121.1°E
3	Cape Leeuwin	34.4°S 113.8°E
	Perth NW	30.1°S 112.7°E
	Shark Bay	25.5°S 111.5°E
	Barrow Island	19.1°S 115.9°E
	Broome	16.5°S 121.4°E
	Cape Talbot	13.0°S 127.0°E